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ABSTRACT

This report, 31st in a series begun in 1964, provides revisions of projections shown in "Projections of Education Statistics to 2011" and includes statistics on elementary and secondary schools and degreegranting institutions. Included are projections of enrollments and graduates to the year 2012. Projections of teachers and expenditures are not included in this edition, but they are available in "Projections of Education Statistics to 2011." This report also contains projections of public elementary and secondary school enrollment and public high school graduates to the year 2112 at the state level. These projections have been produced by the National Center for Education Statistics, but they are not intended to supplant detailed projections prepared in individual states. The report contains a methodology section describing models and assumptions used to develop the national and state projections. The enrollment models use data and population estimates and projections from the National Center for Education Statistics and the U.S. Census Bureau. Population projections are not based on the 200 Census data, which have not yet been released. Most of the projections of education statistics include three alternatives based on different assumptions about demographic and economic growth plans. The first set of projections (middle alternative) is deemed to represent the most likely projections, but the high and low alternatives provide a reasonable range of outcomes. Projections suggest a 1% increase in public and private elementary and secondary enrollment, with a slight decrease in the lower grades, and an increase of about 4% in the upper grades. Enrollment in degree-granting institutions is projected to increase 15% by 2011, and high school graduates are expected to increase by 9%. Four appendixes contain a discussion of the methodology, supplementary tables, a list of data sources, and a glossary. (Contains 44 figures and 49 tables.) (SLD)



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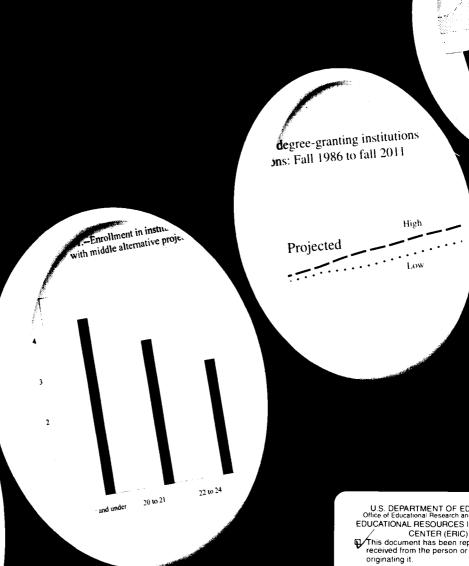
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Thirty-first Edition



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Projections of Education Statistics to 2012

Thirty-first Edition

October 2002

Debra E. Gerald William J. Hussar National Center for Education Statistics



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Foreword

Projections of Education Statistics to 2012 is the 31st report in a series begun in 1964. This report provides revisions of projections shown in *Projections of Education Statistics to 2011* and includes statistics on elementary and secondary schools and degree-granting institutions. Included are projections of enrollments and graduates to the year 2012. Projections of teachers and expenditures are not included in this edition, but they are available in *Projections of Education Statistics to 2011*.

In addition, the report includes projections of public elementary and secondary school enrollment and public high school graduates to the year 2012 at the state level. These projections were produced by the National Center for Education Statistics (NCES) to provide researchers, policy analysts, and others with state-level projections developed using a consistent methodology. They are not intended to supplant detailed projections prepared in individual states.

Assumptions regarding the population and the economy are the key factors underlying the projections of education statistics. The projections do not reflect changes in national, state, or local education policies that may affect enrollment levels.

This report contains a methodology section describing models and assumptions used to develop the national and state projections. The enrollment models use enrollment data and population estimates and projections from NCES and the U.S. Census Bureau. The models are based on the mathematical projection of past data patterns into the future. The models also use projections of economic variables from the company DRI-WEFA, Inc., an economic forecasting service.

The population projections are not based on the 2000 census data. Projections of national population data based on the 2000 census are not scheduled for release until fall 2002. The projections presented in this report reflect revisions influenced by the 1990 census, incorporation of the 2000 estimates, and the latest assumptions for the fertility rate, internal migration, net immigration, and mortality rate. For further information, see appendix A.

Most of the projections of education statistics include three alternatives, based on different assumptions about demographic and economic growth paths. Although the first alternative set of projections (middle alternative) in each table is deemed to represent the most likely projections, the low and high alternatives provide a reasonable range of outcomes.

In the forecast summary, highlights for key education statistics are presented. A summary of the projections is available in a pocket-sized booklet, *Pocket Projections to 2012*.

Valena W. Plisko, Associate Commissioner Early Childhood, International, and Crosscutting Studies Division August 2002



Acknowledgments

Projections of Education Statistics to 2012 was produced by the National Center for Education Statistics (NCES) in the Early Childhood, International, and Crosscutting Studies Division under the general direction of Thomas D. Snyder, Director of the Annual Reports Program. The report was prepared by Debra E. Gerald, mathematical statistician, and William J. Hussar, financial economist.

Debra E. Gerald and William J. Hussar prepared the following: elementary and secondary enrollment (chapter 1); enrollment in degree-granting institutions (chapter 2); high school graduates (chapter 3); earned degrees conferred (chapter 4); and the appendixes explaining the methodologies used to develop these projections. Tabithia Bailey and Geoffrey Greene of DRI-WEFA Inc., implemented the projection models. Anindita Sen and Emily Dill of the Education Statistics Services Institute (ESSI) updated the models' databases and prepared the tables, figures, mean absolute percentage errors, data sources, and glossary.

The technical review was done by Shelley K. Burns of NCES and David C. Miller of ESSI. Ellen Harkavy, Jason Sellers, and Molly Soule of ESSI assisted in the technical review of this report. The adjudication was conducted by Bruce Taylor, adjudicator of NCES. Valuable assistance was also provided by the following reviewers: W. Vance Grant of the National Library of Education, Office of Educational Research and Improvement; Joseph W. McTighe of the Council for American Private Education; Ching-li Wang of the U.S. Census Bureau; and Stephen Broughman, Frank Johnson, and Frank Morgan of NCES.

The cover was designed by Heather Block of ESSI.



Highlights

Changes Between 2000 and 2012

Public and private elementary and secondary enrollment—1 percent increase.

Total public and private elementary and secondary enrollment is projected to increase from 53.2 million in 2000 to 53.9 million in 2005. Then total enrollment is projected to decrease to 53.5 million in 2010, followed by an increase to 53.7 million in 2012, resulting in an overall increase of 1 percent from 2000 (table 1).

Public and private K-8 enrollment—less than 1 percent decrease.

Total public and private K-8 enrollment is projected to remain around 38.4 million between 2000 and 2002. Then total K-8 enrollment is projected to decrease to 37.7 million in 2008, followed by an increase to 38.3 million in 2012, resulting in an overall decrease of less than 1 percent from 2000 (table 1).

Public and private 9-12 enrollment-4 percent increase.

Total public and private 9-12 enrollment is projected to increase from 14.8 million in 2000 to 16.1 million in 2007. Then total 9-12 enrollment is projected to decrease to 15.4 million in 2012, resulting in an overall increase of 4 percent from 2000 (table 1).

Public school enrollment in selected grades 10, 11, and 12—more than 4 percent increase.

Between 2000 and 2012, public school enrollment in grade 10 is projected to increase by 4 percent. Over the same period, enrollments in grades 11 and 12 are expected to increase 5 and 8 percent, respectively (table 3).

Public school enrollment in selected grades 1, 8, and 9—less than 4 percent increase.

Between 2000 and 2012, public school enrollment in grade 1 is projected to increase 2 percent. Over the same period, enrollments in grades 8 and 9 are projected to increase 2 and 3 percent, respectively (table 3).

Public school enrollment in the Western region—9 percent increase.

Between 2000 and 2012, public elementary and secondary enrollment is projected to increase 9 percent in the West and 1 percent in the South. Over the same period, in the Northeast and Midwest, enrollment is projected to decrease 5 and 4 percent, respectively (table 5).

Enrollment in degree-granting institutions—15 percent increase.

Enrollment in degree-granting postsecondary institutions is projected to increase from 15.3 million in 2000 to 17.7 million by 2012, an increase of 15 percent. A 12 percent increase is projected under the low alternative and a 19 percent increase is projected under the high alternative (table 10).

High school graduates—9 percent increase.

Graduates from public and private high schools are projected to increase from 2.8 million in 1999–2000 to 3.1 million by 2011–12, an increase of 9 percent. This increase reflects the projected rise in the 18-year-old population (table 23).

Public high school graduates in the Western region—17 percent increase.

Between 1999–2000 and 2011–12, the number of public high school graduates is projected to increase 17 percent in the West and 11 percent in the South. Graduates in the Northeast and the Midwest are projected to increase 8 and 1 percent, respectively, over the same period (table 25).

Bachelor's degrees—16 percent increase.

The number of bachelor's degrees is expected to increase from 1,237,875 in 1999–2000 to 1,437,000 by 2011–12, an increase of 16 percent (table 27).



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Introduction

Guide to this Edition

This edition of Projections of Education Statistics to 2012 provides projections for key education statistics. including enrollment and graduates in elementary and secondary schools and degree-granting institutions. Elementary and secondary teachers and expenditures of public schools are excluded from this edition, but they do appear in Projections of Education Statistics to 2011. The tables, figures, and text contain national data on enrollment and graduates for the past 14 years and projections to the year 2012. The tables, figures, and text contain state-level data on projections of enrollment in public elementary and secondary schools and public high school graduates to the year 2012. Similar methodologies were used to obtain a uniform set of projections for the 50 states and the District of Columbia. These projections are further adjusted to agree with the national projections of public elementary and secondary school enrollment and public high school graduates appearing in this report. These projections reflect 2000 population estimates and population projections based on the 1990 census, but are not adjusted for the 1990 net undercount of 4 to 5 million. The population projections are not based on the 2000 census data. Projections of national population data are not scheduled for release until fall 2002. Appendix A describes the methodology and assumptions used to develop the projections. Appendix B contains tables of supplementary data. Data sources are presented in appendix C. Appendix D is a glossary of terms.

Limitations of Projections

Projections of time series usually differ from the final reported data due to errors from many sources. This is because of the inherent nature of the statistical universe from which the basic data are obtained and the properties of projection methodologies, which depend on the validity of many assumptions. Therefore, alternative projections are shown for most statistical series to denote the uncertainty involved in making projections. These alternatives are not statistical confidence limits, but instead represent judgments made by the authors as to reasonable upper and lower bounds. The mean absolute percentage error is one way to express the forecast accuracy of past projections. This measure expresses the average value of the absolute value of errors in percentage terms. For example, the mean absolute percentage errors of public school enrollment in grades K-12 for lead times of 1, 2, 5, and 10 years were 0.2, 0.5, 1.1, and 2.7 percent, respectively. On the other hand, mean absolute percentage errors for doctor's degrees for lead times of 1, 2, and 5 years were 2.6, 3.4, and 3.0 percent, respectively. For more information on mean absolute percentage errors, see table A2, page 79.

Alternative projections are presented for enrollment and earned degrees conferred in degree-granting institutions.



Chapter 1

Elementary and Secondary Enrollment

National

Public and private elementary and secondary school enrollments peaked at a record level of 53.2 million in fall 2000. The record 2000 enrollment reflects a 14 percent increase since fall 1990. Further small enrollment increases are expected between 2000 and 2005, followed by small enrollment declines between 2005 and 2010. Between 2010 and 2012, enrollment is projected to increase again (table 1). The primary reason for the continuing increase over the first 5 years is the rise in the number of annual births between 1977 and 1990—sometimes referred to as the "baby boom echo" (appendix table B1 and figure 1). After declines and a period of stability from 1991 to 1997, the number of births has begun rising again. After a decrease in 2001, the 3- to 5-year-old population is projected to increase 6 percent between 2002 and 2012 (appendix table B2 and figure 2). An increase in the 5- to 13-year-old population from 2000 to 2002 and a decrease from 2003 to 2008, followed by an increase from 2009 to 2012, are expected to cause rises in K-8 enrollment through 2002 and decreases through 2008 and then Between 2000 and 2012, increases to 2012. elementary enrollment is projected to remain at the high levels evident in the late 1990s (figure 4). Increases in the 14- to 17-year-old population through 2007 and decreases through 2012 will continue to influence growth in grades 9 through 12 enrollment through 2007. Between 2000 and 2012, enrollment in grades 9-12 is projected to exceed enrollment in the late 1990s.

Enrollment, by Grade Group

Enrollment in grades K-8 increased from 34.0 million in 1990 to approximately 38.4 million in 2000, an increase of 13 percent. After small increases through 2002, K-8 enrollment is projected to decrease slowly through 2008 to 37.7 million. Thereafter, elementary enrollment is expected to begin increasing again, rising to 38.3 million by 2012 (table 1 and figure 4).

Enrollment in grades 9–12 has risen from 12.5 million in 1990 to about 14.8 million in 2000, an increase of 18 percent. Thereafter, enrollment in grades 9–12 is projected to rise to 16.1 million in 2007, before decreasing slightly to 15.4 million by 2012, an increase of 4 percent from 2000. In the year 2005, enrollment in grades 9–12 is projected to reach an all-time record of 15.9 million, surpassing the previous high of 15.7 million in fall 1976.

Enrollment, by Control of School

Enrollment in public elementary and secondary schools increased from 41.2 million in 1990 to 47.2 million in 2000, an increase of 15 percent (figure 5). Enrollment in public schools is projected to rise to 47.9 million in 2006, decrease to 47.6 million in 2010, before increasing again to 47.7 million in 2012 (table 2).

Since 1990, enrollment in private elementary and secondary schools has fluctuated between 5.2 million and 6.0 million. In fall 2000, an estimated 5.9 million students were enrolled in private elementary and secondary schools. Over the projection period, enrollment in private schools is projected to be between 5.9 and 6.0 million (table 2).

Public School Enrollment, by Selected Grade

Between 2000 and 2012, public school enrollment in grades K-12 is projected to increase 1 percent. In grades 1, 4, 8, and 12, projections of public school enrollment will vary over the projection period (table 3 and figure 6). Enrollment in grade 1 is projected to decrease from 2000 to 2002 and then increase through 2012. Enrollment in grade 4 is expected to decrease through 2005 and then increase through 2012. Enrollment in grade 8 is projected to increase to 2004 and then generally decrease to 2012. Enrollment in grade 12 is expected to increase through 2008 and then decrease to 2012.



Methodology

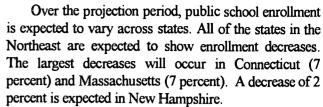
Enrollment rates for the school-age populations are nearly 100 percent for elementary grades and junior-high grades and close to 90 percent for high school grades. Thus, the historical and projected patterns of decline and growth in enrollment for grades K-8 and grades 9-12 are strongly correlated with changes in the sizes of the 5- to 13-year-old population and the 14- to 17-year-old population. Projections of enrollments in public and private elementary and secondary schools are based on projected grade progression rates. The grade progression rates for grades 2 through 10 are all close to 100 percent. Rates for grades 6-7 and grades 8-9 are significantly over 100 percent. Traditionally, these are the grades in which large numbers of elementary students transfer to public or private secondary schools. The progression rates for grades 10 to 11 and 11 to 12 are about 90 percent. The grade progression rates are assumed to be constant over the projection period. The grade progression rate method assumes that past trends in factors affecting private school enrollments will continue over the projection period. This assumption implies that all factors influencing enrollments will display future patterns consistent with past patterns. This method implicitly includes the net effect of such factors as internal migration, dropouts, deaths, nonpromotion, and transfers to and from public schools. The projections do not assume changes in policies or consumer attitudes that may affect enrollment levels.

Projections of public elementary and secondary enrollment that have been produced over the last 19 years are more accurate than projections of public high school graduates that NCES has published over the same time period. For more information, see table A2, page 79.

State Level

Public elementary and secondary school enrollment is projected to increase 1 percent between 2000 and the year 2012, but growth will vary widely across the nation (table 4 and figure 7). Enrollment will increase in the Western and Southern regions, where public school enrollment is expected to increase 9 percent and 1 percent, respectively. A decrease of 5 percent is projected for the Northeastern region, while a decrease of 4 percent is expected in the Midwestern region (table 5 and figure 8).

Tublic School Enrollment



In the Midwest, public school enrollment will decrease in all states except South Dakota between 2000 and 2012. An increase of 1 percent is projected for South Dakota. The largest decreases are projected for Iowa (6 percent), Michigan (7 percent), and North Dakota (6 percent).

Public school enrollment increases are projected for 5 of the 17 Southern states between 2000 and 2012. The largest increases are projected for Georgia (5 percent), Texas (8 percent), and Virginia (5 percent). The largest decreases in enrollment are expected for the District of Columbia (7 percent), Oklahoma (7 percent), and West Virginia (8 percent).

All of the 13 states in the West are expected to show increases in public school enrollment between 2000 and 2012. The largest increases are expected in Alaska (15 percent), Hawaii (16 percent), and Idaho (17 percent).

Public Elementary Enrollment

Between 2000 and 2012, public elementary school enrollment in kindergarten through grade 8 (K-8) is expected to decrease by 0.4 percent. However, public school elementary enrollment is projected to increase in 19 states (table 6 and figure 9). These expected increases in elementary enrollment are a reflection of internal migration, immigration and the relatively high level of births in the 1990s, rather than changes in the attendance rates of young children. The NCES projections do not account for enrollment increases that may be caused by changing state and local policies about the provision of prekindergarten and kindergarten programs. Expansion of these programs could lead to higher enrollments at the elementary school level.

Public school elementary enrollment is expected to show a decrease of 7 percent in the Northeast between 2000 and 2012 (table 7 and figure 10). All states are expected to show decreases. The largest decreases are projected Connecticut (11 percent), Massachusetts (10 percent). The smallest decreases are expected for New Hampshire (3 percent) and Vermont (3 percent).

A decrease of 4 percent in public school elementary enrollment has been projected for the Midwestern region between 2000 and 2012. Eight of the 12 states in this region are projected to show decreases. The largest decreases are expected in Michigan (9 percent) and Ohio G percent). The largest increase is projected for South Dakota (7 percent).

A decrease of less than 0.5 percent is expected for the Southern region between 2000 and 2012. Fourteen of the 17 states are projected to show decreases. The largest decreases are projected for North Carolina (7 percent) and West Virginia (8 percent). The largest increase is projected for Texas (7 percent).

Public school elementary enrollment in the Western states is projected to increase by 8 percent between 2000 and 2012. All of the states are projected to show increases except Nevada, which is expected to decrease by 2 percent. Over the projection period, the largest enrollment increases are expected for Hawaii (19 percent), Idaho (19 percent), and Wyoming (22 percent).

Public High School Enrollment

Between 2000 and 2012, enrollment in public high schools (grades 9 through 12) is expected to increase by 5 percent (table 8 and figure 11). Over the projection period, enrollment increases are projected in all of the regions except the Midwest.

The Northeast public high school enrollment is projected to increase by 2 percent between 2000 and 2012 (table 9 and figure 12). The largest increase is expected in New Jersey (12 percent). The largest decreases are projected for Maine (10 percent) and Vermont (10 percent).

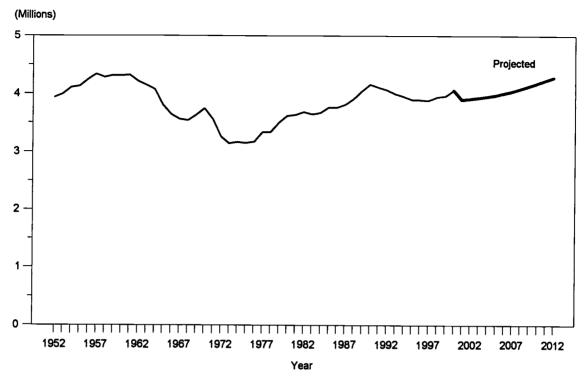
The Midwestern region is expected to show a decrease of 2 percent in public high school enrollment between 2000 and 2012. The largest decreases are projected in North Dakota (19 percent) and South Dakota (11 percent).

Between 2000 and 2012, public high school enrollment in the South is projected to increase by 6 percent. Over the projection period, the largest increases are expected in Georgia (13 percent) and Virginia (14 percent). The largest decrease is projected for the District of Columbia (23 percent).

The Western region's public high school enrollment is expected to increase by 11 percent between 2000 and 2012. Over the projection period, the largest increases are projected for Arizona (20 percent) and Nevada (34 percent). The largest decrease is expected for Wyoming (8 percent).



Figure 1.—Annual number of births, with projections: 1952 to 2012



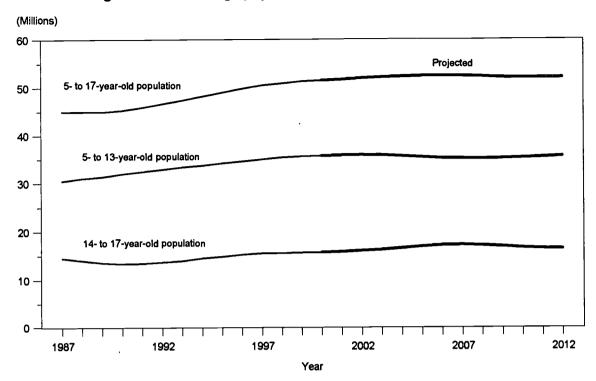
SOURCE: U.S. Department of Commerce, Bureau of the Census, Current Population Reports, Series P-25, Nos. 1092, 1095, and "National Population Estimates,"December 2001, and "Annual Projections of the Total Resident Population: 1999 to 2100," January 2000.

Figure 2.—Three- to five-year-old population, with projections: 1987 to 2012

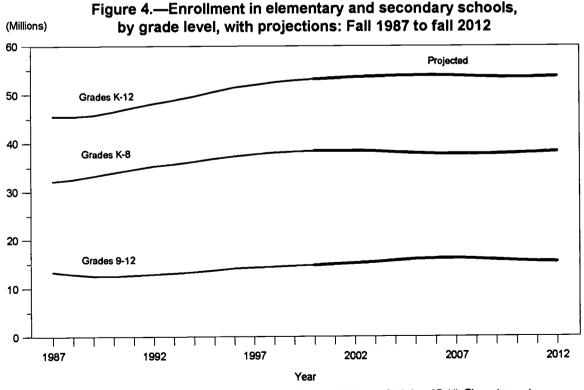
SOURCE: U.S. Department of Commerce, Bureau of the Census, *Current Population Reports*, Series P-25, Nos. 1092, 1095, and "National Population Estimates," December 2001, and "Annual Projections of the Total Resident Population: 1999 to 2100," January 2000.



Figure 3.—School-age populations, with projections: 1987 to 2012



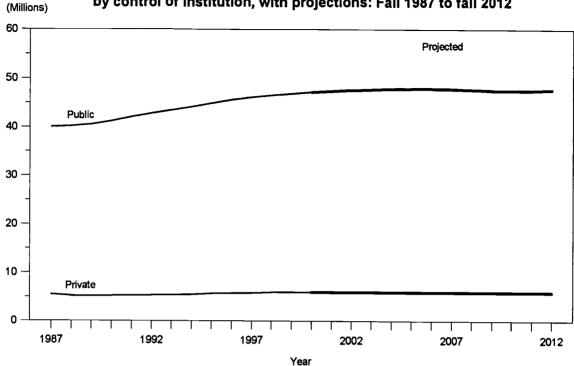
SOURCE: U.S. Department of Commerce, Bureau of the Census, *Current Population Reports*, Series P-25, Nos. 1092, 1095, and "National Population Estimates," December 2001, and "Annual Projections of the Total Resident Population: 1999 to 2100," January 2000



SOURCE: U.S. Department of Education, National Center for Education Statistics of Public Elementary and Secondary Schools; Common Core of Data surveys; Private School Universe Survey, various years; and National Elementary and Secondary Enrollment Model.



Figure 5.—Enrollment in elementary and secondary schools, by control of institution, with projections: Fall 1987 to fall 2012



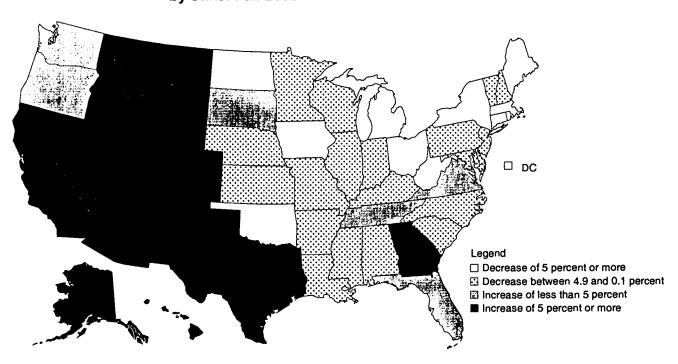
SOURCE: U.S. Department of Education, National Center for Education Statistics, Statistics of Public Elementary and Secondary Schools; Common Core of Data surveys; Private School Universe Survey, various years; and National Elementary and Secondary Enrollment Model.

Figure 6.—Enrollment in public elementary and secondary schools, by selected grade, with projections: Fall 1992 to fall 2012 (Millions) 5 **Projected** Grade 4 Grade 1 3 Grade 8 2 Grade 12 1 0 1992 1997 2002 2007 2012 Year

SOURCE: U.S. Department of Education, National Center for Education Statistics, Statistics of Public Elementary and Secondary Schools; and Common Core of Data Surveys; and National Elementary and Secondary Enrollment Model.

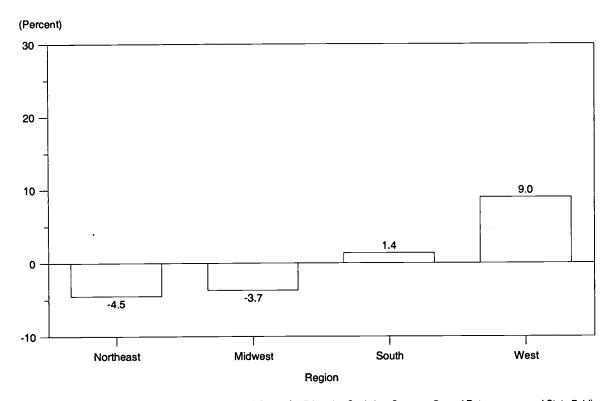


Figure 7.—Percent change in grades K-12 enrollment in public schools, by state: Fall 2000 to fall 2012



SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data surveys; and State Public Elementary and Secondary Enrollment Model.

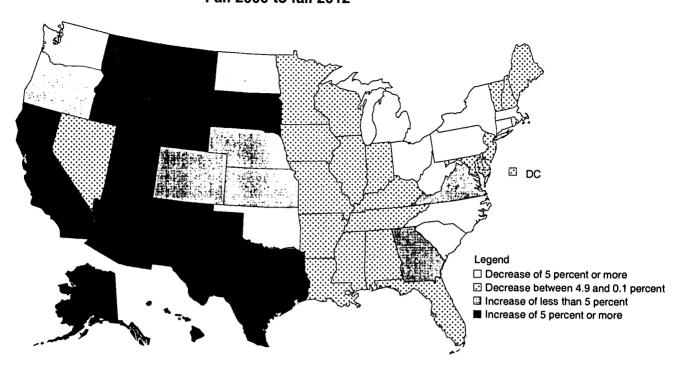
Figure 8.—Percent change in public K-12 enrollment, by region: Fall 2000 to fall 2012



SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data surveys; and State Public Elementary and Secondary Enrollment Model.

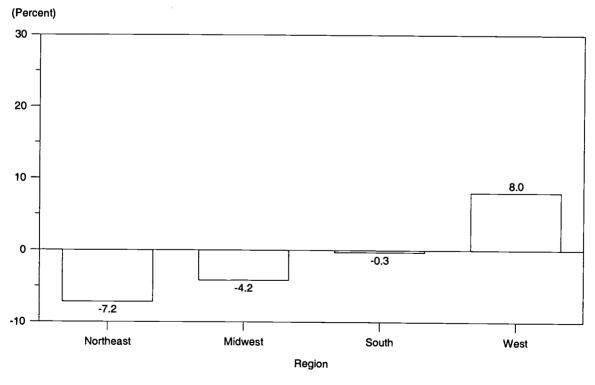


Figure 9.—Percent change in grades K-8 enrollment in public schools, by state:
Fall 2000 to fall 2012



SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data surveys; and State Public Elementary and Secondary Enrollment Model.

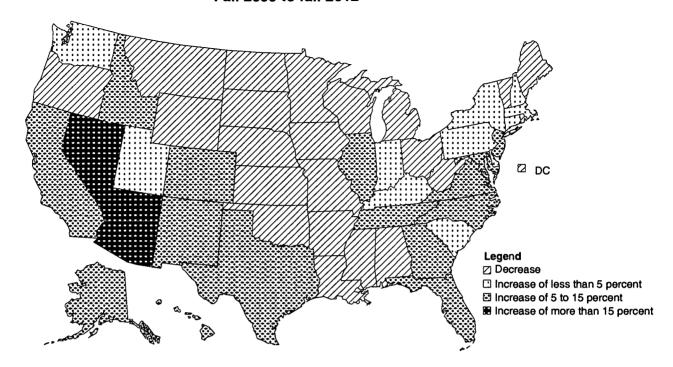
Figure 10.—Percent change in public K-8 enrollment, by region: Fall 2000 to fall 2012



SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data surveys; and State Public Elementary and Secondary Enrollment Model.

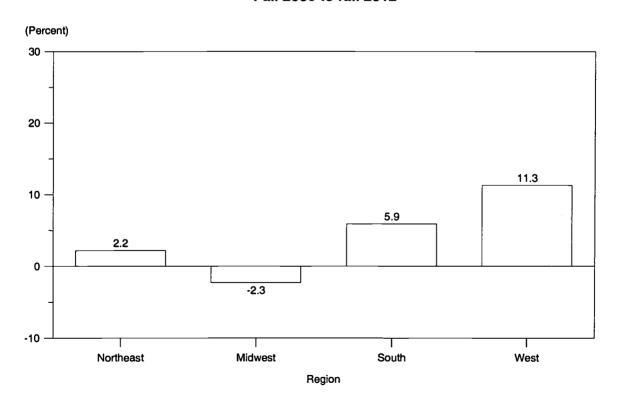


Figure 11.—Percent change in grades 9-12 enrollment in public schools, by state:
Fall 2000 to fall 2012



SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data surveys; and State Public Elementary and Secondary Enrollment Model.

Figure 12.—Percent change in public 9-12 enrollment, by region: Fall 2000 to fall 2012





SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data surveys; and State Public Elementary and Secondary Enrollment Model.

Table 1.—Enrollment in grades K-8 and 9-12 of elementary and secondary schools, by control of institution, with projections: Fall 1987 to fall 2012

77		Total			Public			Private	
Year	K-12 ¹	K-8 ¹	9-12	K-12 ^T	K-8 ¹	9–12	K-12 ¹	K-8 ¹	9-12
1987 2	45,487	32,165	13,323	40,008	27,933	12,076	5,479	4,232	1,247
1988 2	45,430	32,537	12,893	40,188	28,501	11,687	5,242	4,036	1,206
1989 3	45,741	33,187	12,554	40,543	29,152	11,390	5,198	4,035	1,163
1990 4	46,451	33,962	12,488	41,217	29,878	11,338	5,234	4,084	1,150
1991 3	47,322	34,619	12,703	42,047	30,506	11,541	5,275	4,113	1,162
1992 4	48,145	35,264	12,882	42,823	31,088	11,735	5,322	4,175	1,147
1993 3	48,813	35,719	13,093	43,465	31,504	11,961	5,348	4,215	1,132
1994 4	49,609	36,233	13,376	44,111	31,898	12,213	5,498	4,335	1,163
1995 3	50,502	36,806	13,697	44,840	32,341	12,500	5,662	4,465	1,197
1996 4	51,375	37,316	14,060	45,611	32,764	12,847	5,764	4,551	1,213
1997 3	51,968	37,696	14,272	46,127	33,073	13,054	5,841	4,623	1,218
1998 4	52,476	38,048	14,427	46,539	33,346	13,193	5,937	4,702	1,235
1999 3	52,875	38,254	14,623	46,857	33,489	13,369	6,018	4,765	1,254
2000 4	53,167	38,387	14,780	47,223	33,709	13,514	5,944	4,678	1,266
				I	Projected				
2001	53,369	38,414	14,954	47,424	33,746	13,678	5,944	4,668	1,276
2002	53,566	38,416	15,150	47,613	33,756	13,857	5,953	4,660	1,292
2003	53,700	38,320	15,380	47,746	33,677	14,069	5,954	4,644	1,310
2004	53,800	38,120	15,680	47,846	33,500	14,346	5,954	4,620	1,334
2005	53,866	37,917	15,948	47,912	33,315	14,597	5,954	4,603	1,351
2006	53,862	37,765	16,097	47,912	33,174	14,739	5,950	4,592	1,358
2007	53,789	37,666	16,123	47,847	33,078	14,768	5,942	4,588	1,355
2008	53,652	37,661	15,991	47,719	33,069	14,649	5,933	4,592	1,341
2009	53,538	37,726	15,812	47,607	33,122	14,485	5,931	4,604	1,327
2010	53,498	37,869	15,629	47,561	33,244	14,317	5,937	4,625	1,313
2011	53,538	38,039	15,500	47,586	33,389	14,197	5,952	4,649	1,303
2012	53,692	38,258	15,434	47,715	33,578	14,137	5,977	4,680	1,297

Includes most kindergarten and some nursery school enrollment.

NOTE: Some data have been revised from previously published figures. Detail may not sum to totals due to rounding. Mean absolute percentage errors of selected education statistics can be found in table A2.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Statistics of Public Elementary and Secondary Schools: Common Core of Data surveys; 1985 Private School Survey; Private School Universe Survey, various years; and National Elementary and Secondary Enrollment Model. (This table was prepared May 2002.)



² Private school numbers are interpolated based on data from the 1985 Private School Survey.

³ Private school numbers are from the Private School Universe Survey.

⁴ Private school numbers are interpolated based on data from the Private School Universe Survey.

Table 2.—Enrollment in elementary and secondary schools, by organizational level and control of institution, with projections: Fall 1987 to fall 2012

		Total			Public	<u>-</u>		Private			
Year	K-12 ¹	Elementary	Secondary	K-12 ¹	Elementary	Secondary	K-12 ¹	Elementary	Secondary		
1987 2	45,487	29,447	16,040	40,008	25,215	14,793	5,479	4,232	1,247		
1988 2	45,430	29,776	15,654	40,188	25,740	14,448	5,242	4,036	1,206		
1989 3	45,741	30,443	15,298	40,543	26,408	14,135	5,198	4,035	1,163		
1990 4	46,451	31,134	15,317	41,217	27,050	14,167	5,234	4,084	1,150		
1991 3	47,322	31,708	15,614	42,047	27,595	14,452	5,275	4,113	1,162		
1992 4	48,145	32,280	15,865	42,823	28,105	14,718	5,322	4,175	1,147		
1993 3	48,813	32,741	16,071	43,465	28,526	14,939	5,348	4,215	1,132		
1994 4	49,609	33,285	16,324	44,111	28,950	15,161	5,498	4,335	1,163		
1995 3	50,502	33,894	16,608	44,840	29,429	15,411	5,662	4,465	1,197		
1996 4	51,375	34,486	16,889	45,611	29,935	15,676	5,764	4,551	1,213		
1997 3	51,968	34,897	17,071	46,127	30,274	15,853	5,841	4,623	1,218		
1998 4	52,476	35,246	17,230	46,539	30,544	15,995	5,937	4,702	1,235		
1999 3	52,875	35,518	17,358	46,857	30,753	16,104	6,018	4,765	1,254		
2000 4	53,167	35,671	17,496	47,223	30,993	16,230	5,944	4,678	1,266		
2000			•	·	Projected						
2001	53,369	35,540	17,829	47,424	30,872	16,553	5,944	4,668	1,276		
2002	53,566	35,471	18,095	47,613	30,810	16,803	5,953	4,660	1,292		
2003	53,700	35,330	18,370	47,746	30,687	17,059	5,954	4,644	1,310		
2004	53,800	35,135	18,665	47,846	30,516	17,330	5,954	4,620	1,334		
2005	53,866	34,957	18,908	47,912	30,355	17,557	5,954	4,603	1,351		
2006	53,862	34,843	19,019	47,912	30,251	17,661	5,950	4,592	1,358		
2007	53,789	34,784	19,005	47,847	30,197	17,650	5,942	4,588	1,355		
2008	53,652	34,810	18,842	47,719	30,218	17,501	5,933	4,592	1,341		
2009	53,538	34,886	18,652	47,607	30,282	17,324	5,931	4,604	1,327		
2010	53,498	35,026	18,472	47,561	30,402	17,159	5,937	4,625	1,313		
2011	53,538	35,196	18,342	47,586	30,547	17,040	5,952	4,649	1,303		
2012	53,692	35,411	18,281	47,715	30,732	16,984	5,977	4,680	1,297		

Includes most kindergarten and some nursery school enrollment.

NOTE: Some data have been revised from previously published figures. For private schools, it was assumed that numbers for elementary are the same as those in table 1 for grades K-8, and numbers for secondary are the same as those in table 1 for grades 9-12. Designation of grades as elementary or secondary varies from school to school. Detail may not sum to totals due to rounding. Mean absolute percentage errors of selected education statistics can be found in table A2. SOURCE: U.S. Department of Education, National Center for Education Statistics, Statistics of Public Elementary and Secondary Schools: Common Core of Data surveys; 1985 Private School Survey; Private School Universe Survey, various years; and National Elementary and Secondary Enrollment Model. (This table was prepared May 2002.)



² Private school numbers are interpolated based on data from the 1985 Private School Survey.

³ Private school numbers are from the Private School Universe Survey.

⁴ Private school numbers are interpolated based on data from the Private School Universe Survey.

Table 3.—Enrollment in public elementary and secondary schools, by grade, with projections: Fall 1992 to fall 2012

Ye	ar	Total	Kinder-	Grade	Grade	Grade	Grade	Grade	Grade	Elementary	Secondary						
1681			garten ¹	1	2	3	4	5	6	7	8	9	10	11	12	Unclassified	Unclassified
1992		42,823	3,817	3,542	3,431	3,361	3,342	3,325	3,303	3,299	3,129	3,352	3,027	2,656	2,431	539	269
1993		43,465	3,922	3,529	3,429	3,437	3,361	3,350	3,356	3,355	3,249	3,487	3,050	2,751	2,424	515	248
1994		44,111	4,047	3,593	3,440	3,439	3,426	3,372	3,381	3,404	3,302	3,604	3,131	2,748	2,488	494	242
1995		44,840	4,173	3,671	3,507	3,445	3,431	3,438	3,395	3,422	3,356	3,704	3,237	2,826	2,487	502	245
1996		45,611	4,203	3,770	3,600	3,524	3,454	3,453	3,494	3,464	3,403	3,801	3,323	2,930	2,586	401	206
1997		46,127	4,199	3,755	3,689	3,597	3,507	3,458	3,492	3,520	3,415	3,819	3,376	2,972	2,673	442	214
1998		46,539	4,172	3,727	3,681	3,696	3,592	3,520	3,497	3,530	3,480	3,856	3,382	3,021	2,722	451	212
1999		46,857	4,148	3,684	3,656	3,691	3,686	3,604	3,564	3,541	3,497	3,935	3,415	3,034	2,782	418	203
2000		47,223	4,177	3,635	3,633	3,673	3,708	3,703	3,658	3,624	3,532	3,958	3,487	3,080	2,799	366	189
										Project	ed						
2001		47,424	4,062	3,598	3,569	3,644	3,676	3,722	3,752	3,710	3,597	3,988	3,516	3,136	2,830	417	208
2002		47,613	4,071	3,559	3,533	3,580	3,646	3,690	3,771	3,805	3,683	4,061	3,542	3,162	2,882	418	211
2003		47,746	4,071	3,568	3,495	3,544	3,582	3,660	3,738	3,825	3,777	4,158	3,607	3,186	2,905	417	213
2004		47,846	4,072	3,567	3,503	3,505	3,547	3,596	3,709	3,792	3,796	4,264	3,693	3,244	2,927	415	218
2005		47,912	4,083	3,568	3,502	3,514	3,508	3,560	3,643	3,761	3,763	4,286	3,787	3,321	2,980	412	222
2006		47,912	4,098	3,577	3,504	3,513	3,516	3,521	3,607	3,695	3,733	4,249	3,807	3,406	3,052	410	225
2007		47,847	4,116	3,589	3,512	3,514	3,515	3,529	3,568	3,658	3,667	4,215	3,773	3,424	3,130	409	227
2008		47,719	4,138	3,605	3,524	3,523	3,517	3,528	3,576	3,618	3,631	4,141	3,743	3,394	3,146	408	225
2009		47,607	4,165	3,625	3,540	3,535	3,525	3,530	3,575	3,627	3,591	4,099	3,678	3,367	3,118	409	223
2010		47,561	4,198	3,648	3,559	3,550	3,537	3,539	3,577	3,626	3,600	4,055	3,641	3,308	3,094	410	220
2011		47,586	4,235	3,675	3,582	3,570	3,553	3,551	3,585	3,628	3,599	4,064	3,601	3,275	3,039	412	218
2012		47,715	4,280	3,710	3,608	3,593	3,572	3,566	3,598	3,636	3,601	4,063	3,610	3,239	3,009	414	216

Includes most kindergarten and some nursery school enrollment.

NOTE: Some data have been revised from previously published figures. Detail may not sum to totals due to rounding. Mean absolute percentage errors of selected education statistics can be found in table A2.

SOURCE: U.S. Department of Education, National Center for Education Statistics of Public Elementary and Secondary Schools: Common Core of Data surveys; and National Elementary and Secondary Enrollment Model. (This table was prepared May 2002.)



Table 4.—Enrollment in grades K-12 in public elementary and secondary schools, by region and state, with projections: Fall 1994 to fall 2012

-				(III	thousands	,				Dustand			
Region and	Region and state -		1995	1996	Actual 1997	1998	1999	2000		Projected	****		
United States		1994 44,111	44,840	45,611	46,127	46,539	46,857	47,223	2001 47,424	2002 47,613	2003 47,746		
Northeast		7.760	7.004	9.007	0.006	·	•	•	•	•			
Connecticut	***************************************	7,760 507	7,894	8,006	8,085	8,145	8,196	8,217	8,270	8,291	8,289		
Maine			518	527	535	545	554	562	563	564	563		
Massachusetts		213	214	214	213	211	209	207	207	205	204		
	***************************************	894	915	934	949	962	971	975	979	981	980		
New Hampshire		189	194	198	202	205	207	208	208	209	209		
New Jersey		1,174	1,197	1,228	1,250	1,269	1,289	1,308	1,330	1,342	1,348		
New York	***************************************	2,766	2,813	2,843	2,862	2,877	2,888	2,882	2,891	2,895	2,891		
Pennsylvania	***************************************	1,765	1,788	1,804	1,815	1,816	1,817	1,814	1,833	1,837	1,837		
Rhode Island Vermont		147 105	150 106	151 106	153 106	155 105	156 105	157 102	157 102	157	157		
V BILLIOILE	•••••	103	100	100	100	105	105	102	102	101	100		
Midwest		10,386	10,512	10,638	10,704	10,722	10,726	10,753	10,722	10,712	10,684		
Illinois		1,916	1,944	1,973	1,998	2,012	2,028	2,049	2,064	2,072	2,077		
Indiana		969	977	983	987	989	989	989	990	991	992		
Iowa	***************************************	500	502	503	501	498	497	495	491	489	486		
Kansas		461	463	466	469	472	472	471	468	466	463		
Michigan		1,615	1,641	1,686	1,703	1,720	1,726	1,743	1,720	1,717	1,710		
Minnesota	***************************************	822	835	847	854	856	854	854	850	847	842		
Missouri		879	890	901	911	913	914	913	911	909	907		
Nebraska	***************************************	287	290	292	293	291	288	286	285	284	283		
North Dakota		119	119	120	119	115	113	109	108	106	104		
Ohio		1,814	1,836	1,845	1,847	1,842	1,837	1,835	1,831	1,828	1,822		
South Dakota	***************************************	143	145	143	142	132	131	129	129	1,020	126		
Wisconsin		861	870	879	882	880	878	879	877	875	871		
South		15,851	16,118	14 272	16.663	17.713	14 043	1= 000	1= 000				
Alabama		737	746	16,373 748	16,563 749	16,713	16,842	17,008	17,090	17,166	17,231		
Arkansas	***************************************	448				748	741	740	742	741	740		
Delaware	***************************************	107	453	457	456	452	451	450	449	447	446		
District of Columbia	***************************************	80	108	111	112	113	113	115	115	116	116		
Florida	•••••	_	80	79	77	72	77	69	68	66	65		
	***************************************	2,111	2,176	2,242	2,294	2,338	2,381	2,435	2,444	2,462	2,482		
Georgia		1,271	1,311	1,347	1,376	1,401	1,423	1,445	1,459	1,473	1,485		
Kentucky		658	660	656	669	656	648	666	668	670	67 I		
Louisiana		798	797	793	777	769	757	743	746	739	734		
Maryland		791	806	819	831	842	847	853	862	866	868		
Mississippi		506	506	504	505	502	501	498	499	499	498		
North Carolina		1,157	1,183	1,210	1,236	1,255	1,276	1,294	1,300	1,308	1,313		
Oklahoma		610	616	621	624	628	627	623	610	604	599		
South Carolina		649	646	653	659	665	667	677	677	680	681		
Tennessee		881	894	905	893	905	916	909	916	920	924		
Texas		3,677	3,748	3,829	3,892	3,945	3,992	4,060	4,076	4,104	4,128		
Virginia	•••••	1,061	1,080	1,096	1,111	1,124	1,134	1,145	1,176	1,190	1,199		
West Virginia	•••••	311	307	304	301	298	292	286	284	282	280		
Vest	*******	10,114	10,316	10,594	10,775	10,959	11,094	11,246	11,342	11,444	11,542		
Alaska		127	128	130	132	135	134	133	135	136	137		
Arizona		737	744	799	814	848	853	878	890	903	915		
California	***************************************	5,407	5,536	5,686	5,804	5,926	6,039	6,142	6,201	6,267	6,326		
Colorado	***************************************	641	656	673	687	699	708	725	729	736	742		
Hawaii		184	187	188	190	188	186	184	188	190	191		
Idaho		240	243	245	244	245	245	245	249	251	254		
Montana		164	166	165	162	160	158	155	156	155			
Nevada		251	265	282	297	311	326	34I			155		
New Mexico		327	330	333	332	329	326 324		346	355	365		
Oregon		522	528	538	532 541	543		320 546	325 546	327	328		
Utah		475	477	482			545	546	546	546	546		
Washington					483	481	480	482	481	482	485		
=		938	957	975	991	998	1,004	1,005	1,006	1,007	1,009		
Wyoming	***************************************	100	100	99	97	95	92	90	90	89	89		



Table 4.—Enrollment in grades K-12 in public elementary and secondary schools, by region and state, with projections: Fall 1994 to fall 2012—Continued

Region and state					F	rojected				
		2004	2005	2006	2007	2008	2009	2010	<u> 201</u> 1	2012
United States		47,846	47,912	47,912	47,847	47,719	47,607	47,561	47,586	47,715
Northeast		8,276	8,244	8,192	8,124	8,046	7,974	7,916	7,870	7,849
Connecticut		561	557	552	547	540	534	529	525	521
Maine		202	200	198	197	196	195	195	195	196
Massachusetts		977	971	963	952	939	929	919	912	910
New Hampshire		209	208	208	207	205	205	204	204	205
New Jersey		1,352	1,353	1,349	1,342	1,333	1,324	1,317	1,310	1,308
New York		2,887	2,875	2,854	2,830	2,801	2,775	2,754	2,737	2,727
Pennsylvania		1,833	1,826	1,814	1,800	1,783	1,766	1,753	1,743	1,737
Rhode Island		156	156	154	153	151	150	149	148	147
Vermont		100	99	98	98	97	97	97	97	97
Aidwest		10,659	10,636	10,603	10,556	10,491	10,433	10,391	10,363	10,360
Illinois		2,080	2,083	2,081	2,076	2,065	2,052	2,044	2,035	2,030
Indiana		994	996	994	990	985	979	974	970	968
Iowa		483	482	480	478	475	472	469	467	467
Kansas		462	461	461	460	460	460	461	463	466
Michigan		1,705	1,696	1,687	1,674	1,656	1,641	1,630	1,621	1,616
Minnesota		837	834	830	826	821	819	817	817	820
Missouri		905	904	902	898	894	890	886	885	887
Nebraska		282	282	282	282	281	282	282	284	286
North Dakota		103	102	101	101	101	101	101	102	103
Ohio		1,815	1,808	1,799	1,788	1,774	1,761	1,750	1,741	1,736
South Dakota		126	125	126	126	126	127	128	129	130
Wisconsin		867	863	861	857	853	850	849	849	852
outh		17,277	17,310	17,325	17,311	17,284	17,246	17,220	17,221	17,251
Alabama		740	739	738	736	732	729	727	725	726
Arkansas		445	444	443	441	438	435	433	432	431
Delaware		116	116	116	116	116	115	115	114	114
District of Columbia		64	63	63	62	62	62	62	63	64
Florida		2,484	2,488	2,485	2,477	2,469	2,456	2,445	2,441	2,441
Georgia		1,497	1,505	1,510	1,513	1,511	1,511	1,511	1,513	1,517
Kentucky		672	673	674	674	672	668	665	660	655
Louisiana		734	729	726	723	725	721	721	721	723
Maryland		869	867	865	861	857	852	851	850	852
Mississippi		498	498	498	497	494	492	489	487	485
North Carolina		1,316	1,315	1,310	1,301	1,291	1,279	1,268	1,259	1,252
Oklahoma		594	591	588	584	581	579	578	578	580
South Carolina		681	680	679	675	673	668	665	662	661
Tennessee		928	930	931	929	926	923	921	920	922
Texas		4,155	4,182	4,210	4,236	4,258	4,280	4,302	4,331	4,366
Virginia		1,206	1,211	1,215	1,214	1,210	1,207	1,203	1,201	1,201
West Virginia		278	277	275	273	271	268	266	264	262
Vest		11,634	11,721	11,792	11,855	11,898	11,954	12,033	12,132	12,256
Alaska		138	139	141	142	143	145	147	150	153
Arizona		926	936	944	949	952	954	955	958	960
California		6,385	6,435	6,474	6,509	6,533	6,567	6,622	6,685	6,768
Colorado		747	752	756	759	760	762	763	764	767
Hawaii		193	195	197	199	201	203	207	210	214
Idaho		258	261	265	268	271	275	279	283	287
Montana		154	155	155	156	157	158	160	161	164
Nevada		370	375	379	380	379	377	374	371	368
New Mexico		331	334	337	340	344	349	354	360	366
Oregon		546	546	547	546	546	546	547	549	553
Utah		488	493	497	502	507	512	516	522	528
Washington		1,009	1,010	1,012	1,012	1,011	1,012	1,014	1,019	1,028
		89	90	90	92	93	94	96	98	101

NOTE: Some data have been revised from previously published figures. Includes most kindergarten and some nursery school enrollment. Detail may not

sum to totals due to rounding. Mean absolute percentage errors of selected education statistics can be found in table A2.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data surveys and State Public Elementary and Secondary Enrollment Model. (This table was prepared May 2002.)



Table 5.—Percent change in grades K-12 enrollment in public schools, by region and state, with projections: Fall 1994 to fall 2012

	Region and state —	<u>Actual</u>		Projected	
	Kegion and state	1994 to 2000	2000 to 2006	2006 to 2012	2000 to 2012
United States		7.1	1.5	-0.4	1.0
Vortheast		5.9	-0.3	-4.2	-4.5
Connecticut		10.9	-1.7	-5.6	-7.2
Maine		-2.6	-4.2	-1.4	-5.5
Massachusetts		9.1	-1.2	-5.5	-6.7
	······································	10.1	-0.3	-1.5	-1.8
New Hampshire			3.2	-1.5 -3.1	-0.0
New Jersey		11.4			-0.0 -5.4
New York		4.2	-1.0	-4.5 4.3	
Pennsylvania	***************************************	2.8	0.0	-4.2	-4.2
Rhode Island		6.7	-1.9	-4.6	-6.4
Vermont	······································	-2.4	-3.7	-1.2	-4.8
Midwest		3.5	-1.4	-2.3	-3.7
Illinois		6.9	1.6	-2.5	-0.9
Indiana		2.1	0.5	-2.6	-2.1
Iowa		-1.1	-3.0	-2.8	-5.7
Kansas	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2.1	-2.1	1.1	-1.0
Michigan		8.0	-3.3	-4.2	-7.3
Minnesota	.,,	4.0	-2.8	-1.2	-4.0
Missouri		3.9	-1.2	-1.6	-2.8
Nebraska		-0.3	-1.6	1.4	-0.2
		-0.3 -8.5	-7.1	1.1	-6.1
North Dakota				-3.5	-5.4
Ohio		1.1	1.9		
South Dakota		-10,4	-2.4	3.4	1.0
Wisconsin	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2.2	-2.1	-1.1	-3.1
South		7.3	1.9	-0.4	1.4
Alabama		0,5	-0.3	-1.6	-2.0
Arkansas		0.5	-1,5	-2.8	-4.3
Delaware	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7.4	1.2	-2.2	-1.0
		-14.3	-8.7	2.1	-6.8
Florida		15.3	2.1	-1.8	0.3
		13.7	4.5	0.4	5.0
Georgia Vantualis		1.2	1.2	-2.8	-1.7
Kentucky		-6.9	-2.3	-0.4	-2.7
Louisiana					-2. / -0.1
Maryland		7.8	1.4	-1.5	
Mississippi		-1.6	0.0	-2.5	-2.5
North Carolina		11.8	1.3	-4.4	-3.2
Oklahoma	***************************************	2.2	-5.7	-1.2	-6.9
South Carolina		4.4	0.2	-2.6	-2.4
Tennessee		3.2	2.4	-1.0	1.3
Texas		10.4	3.7	3.7	7.5
Virginia	***************************************	7.9	6.1	-1.2	4.9
West Virginia		-7.8	-3.9	-4.6	-8.4
West		11.2	4.9	3.9	9.0
Alaska		5.0	5.4	9.0	14.9
Arizona		19.0	7.5	1.8	9.4
California		13.6	5.4	4.5	10.2
Colorado		13.1	4.3	1.5	5.9
Hawaii		0.3	6.8	8.9	16.3
Idaho		1.9	8.0	8.4	17.0
Montana		-5.8	0.3	5.4	5.7
Nevada		35.9	11.1	-2.9	7.9
New Mexico		-2.1	5.2	8.7	14.3
Oregon		4.7	0.1	1.1	1.2
Utah		1.5	3.3	6.1	9.6
Washington		7.1	0.7	1.6	2.3

NOTE: Calculations are based on unrounded numbers. Includes most kindergarten and some nursery school enrollment. Mean absolute percentage errors of selected education statistics can be found in table A2.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data surveys and State Public Elementary and Secondary Enrollment Model. (This table was prepared May 2002.)



Table 6.—Enrollment in grades K–8 in public schools, by region and state, with projections: Fall 1994 to fall 2012

					Actual	,				rojected	
Region and state -		1994	94 1995	1996	1997	1998	1999	2000	2001	2002	2003
United States		31,898	32,341	32,764	33,073	33,346	33,489	33,709	33,746	33,756	33,677
Northeast	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5,568	5,659	5,729	5,774	5,820	5,841	5,826	5,828	5,798	5,748
Connecticut		٠376	384	389	394	399	404	406	402	399	394
Maine		156	156	156	153	151	149	146	145	144	142
Massachusetts		659	675	688	696	705	706	703	699	695	686
New Hampshire		139	142	144	145	147	147	147	146	145	145
New Jersey	*********	862	880	903	921	936	954	953	960	959	953
New York		1,949	1,980	2,000	2,011	2,028	2,034	2,029	2,029	2,017	1,999
Pennsylvania		1,244	1,257	1,264	1,266	1,267	1,262	1,258	1,264	1,258	1,249
Rhode Island		108	110	110	112	112	114	114	113	112	111
Vermont	****************	76	75	75	74	73	72	70	70	70	69
Midwest	*****************	7,387	7,448	7,504	7,554	7,565	7,551	7,557	7,526	7,505	7,465
Illinois		1,368	1,390	1,412	1,438	1,452	1,462	1,474	1,477	1,477	1,474
Indiana		679	684	689	693	697	699	703	706	706	703
Iowa		346	344	342	338	337	336	334	332	331	329
Kansas		329	329	328	328	327	326	323	322	321	320
Michigan	***************************************	1,170	1,192	1,212	1,236	1,245	1,245	1,256	1,234	1,229	1,219
Minnesota	***************************************	581	586	589	588	587	580	578	574	570	565
Missouri	***************************************	628	636	643	650	651	649	645	643	642	639
Nebraska	*************	203	203	203	202	200	197	195	196	195	195
North Dakota	************	83	82	82	80	77	75	72	72	71	71
Ohio	**********	1,295	1,297	1,299	1,299	1,301	1,296	1,294	1,290	1,285	1,276
South Dakota		102	101	99	98	91	90	88	89	88	88
Wisconsin		601	603	605	604	601	596	595	591	588	585
South		11,604	11,772	11,911	12,022	12,127	12,191	12,315	12,331	12,348	12,331
Alabama		535	539	540	541	542	539	539	541	541	540
Arkansas	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	319	322	324	322	319	318	318	318	318	316
Delaware	************************	77	77	78	79	80	80	81	81	81	81
District of Columbia	*****************	62	62	61	60	57	60	54	53	53	51
Florida	*****************	1,570	1,614	1,653	1,680	1,704	1,725	1,760	1,752	1,750	1,741
Georgia	*****************	935	966	991	1,011	1,029	1,044	1,060	1,066	1,072	1,074
Kentucky	***************************************	467	468	466	474	464	459	472	473	475	476
Louisiana	***************************************	584	580	575	564	558	548	547	544	541	537
Maryland		581	590	597	602	607	607	609	611	610	607
Mississippi	***************************************	367	366	364	365	365	365	364	367	368	367
North Carolina		847	871	886	906	921	935	945	945	943	936
Oklahoma		443	446	445	445	448	447	445	434	431	427
South Carolina	***************************************	469	463	468	473	478	484	493	489	488	485
Tennessee	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	641	651	657	653	665	664	668	673	676	675
Texas		2,721	2,757	2,800	2,832	2,868	2,896	2,943	2,943	2,959	2,973
Virginia		774	788	796	807	815	817	816	839	845	846
West Virginia		213	211	209	207	206	203	201	200	200	198
West		7,340	7,462	7,620	7,723	7,834	7,904	8,012	8,061	8,105	8,133
Alaska		94	93	94	96	97	96	94	96	97	97
Arizona		543	549	588	596	623	624	641	647	654	658
California		3,956	4,041	4,129	4,196	4,270	4,337	4,409	4,434	4,457	4,470
Colorado		470	479	487	494	501	507	517	517	520	522
Hawaii		134	136	136	136	135	133	132	136	137	139
Idaho		169	170	169	169	169	169	170	174	176	179
Montana	***************************************	117	116	115	112	110	107	105	106	107	107
Nevada		185	196	208	219	229	240	251	252	255	256
New Mexico	***************************************	229	229	230	236	232	229	225	230	232	234
Oregon	***************************************	372	376	380	381	380	378	379	230 379	379	234 377
Utah	*******	372	328	328	329	329	378 329	333	379	336	339
Washington	***************************************	673	680	328 687	694	696	695	555 694	534 694	694	692
Wyoming	**********	70	69	67	66	64	62	60	61	61	62
11 Лоппия		70	07	01	00	U-7	UŁ	w	UI	01	02



Table 6.-Enrollment in grades K-8 in public schools, by region and state, with projections: Fall 1994 to fall 2012—Continued

					P	rojected_				
Regio	n and state –	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States		33,500	33,315	33,174	33,078	33,069	33,122	33,244	33,389	33,578
		£ 600	5 617	5,553	5,502	5,473	5,451	5,429	5,413	5,405
Northeast		5,680	5,613	3,333	371	366	365	364	363	364
Connecticut		388	382		139	140	141	141	141	140
Maine		141	140	139		646	644	640	637	635
Massachusetts		676	666	656	648	142	143	143	142	142
New Hampshire	,,	143	143	142	142		911	910	909	911
New Jersey		944	936	927	919	914			1,870	1,868
New York		1,975	1,950	1,929	1,910	1,897	1,885	1,877		
Pennsylvania		1,235	1,221	1,209	1,199	1,194	1,189	1,183	1,177	1,173
Rhode Island		109	108	106	105	105	105	104	104	104
Vermont		69	68	68	69	69	69	69	69	68
Midwest		7,400	7,338	7,289	7,250	7,235	7,226	7,225	7,228	7,237
Illinois	,	1,462	1,449	1,439	1,428	1,418	1,412	1,413	1,415	1,418
		699	693	689	685	682	680	679	678	677
Indiana		326	323	320	319	318	318	318	318	318
Iowa		319	318	318	319	321	322	323	325	327
Kansas			1,188	1,176	1,166	1,159	1,156	1,152	1,149	1,147
Michigan		1,202	•	•	552	552	554	556	559	562
Minnesota		560	556	553			623	624	625	627
Missouri		634	629	623	621	622		198	199	200
Nebraska		194	194	194	195	196	197		72	73
North Dakota		70	70	70	71	71	72	72		
Ohio		1,264	1,251	1,241	1,231	1,226	1,222	1,219	1,216	1,214
South Dakota	***************************************	88	89	89	90	92	92	93	93	94
Wisconsin		581	578	575	575	576	577	578	579	581
		12,292	12,232	12,179	12,140	12,123	12,124	12,169	12,219	12,281
South				531	529	529	527	526	525	525
Alabama		536	533			306	305	304	304	303
Arkansas		313	310	308	307		79	79	78	78
Delaware		81	81	80	80	79		51	51	53
District of Columbia		50	49	49	48	49	50			
Florida		1,730	1,716	1,702	1,689	1,677	1,678	1,687	1,697	1,710
Georgia		1,071	1,070	1,068	1,066	1,066	1,066	1,070	1,075	1,080
Kentucky		475	473	471	467	462	459	457	455	453
Louisiana	***************************************	540	534	531	530	531	531	533	535	537
Maryland		602	597	594	592	592	591	592	592	594
• · · · · · · · · · · · · · · · · · · ·		365	363	361	. 359	359	356	355	354	353
Mississippi		927	917	906	895	885	880	879	878	879
North Carolina		422	418	414	413	413	415	417	420	423
Oklahoma		485	481	476	472	471	470	469	468	468
South Carolina				665	664	665	663	664	664	664
Tennessee		672	668			3,020	3,039	3,074	3,110	3,149
Texas		2,982	2,990	2,997	3,006	828	824	824	824	826
Virginia		842	838	833	830		190	188	186	185
West Virginia		197	195	193	192	191	170	100	100	
West		8,128	8,132	8,153	8,186	8,238	8,320	8,420	8,531	8,656
Alaska		98	. 99	100	102	104	106	108	110	112
		659	659	658	658	656	658	664	670	677
Arizona		4,460	4,456	4,468	4,481	4,508	4,566	4,631	4,707	4,796
California		523	523	523	523	524	526	529	533	536
Colorado		140	141	143	146	149	151	153	155	158
Hawaii					190	194	196	198	200	202
Idaho		181	184	187		114	115	115	116	117
Montana		107	108	109	111		243	245	246	241
Nevada		256	254	251	248	244		259	262	260
New Mexico		236	239	242	247	252	255			386
Oregon		375	374	373	374	376	378	381	384	
Utah		342	345	348	353	357	360	365	369	373
Washington		689	687	685	687	691	696	701	708	71:
Wyoming	***************************************	63	64	65	67	69	70	71	72_	74

NOTE: Some data have been revised from previously published figures. Includes most kindergarten and some nursery school enrollment. Detail may not

sum to totals due to rounding. Mean absolute percentage errors of selected education statistics can be found in table A2.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data surveys and State Public Elementary and Secondary

Enrollment Model. (This table was prepared May 2002.)



Table 7.—Percent change in grades K-8 enrollment in public schools, by region and state, with projections: Fall 1994 to fall 2012

United States Northeast Connecticut Maine Massachusetts New Hampshire New Jersey New York Pennsylvania Rhode Island Vermont Midwest Illinois Indiana Iowa Kansas Michigan Minnesota Missouri Nebraska North Dakota Ohio South Dakota Wisconsin South Alabama Arkansas Delaware District of Columbia Florida Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Oklahoma South Carolina Tennessee Texas Virginia West Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon	ıd state —	Actual	Projected					
Northeast Connecticut Maine Massachusetts New Hampshire New Jersey New York Pennsylvania Rhode Island Vermont Midwest Illinois Indiana Iowa Kansas Michigan Minnesota Missouri Nebraska North Dakota Ohio South Dakota Wisconsin South Alabama Arkansas Delaware District of Columbia Florida Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia West Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		1994 to 2000	2000 to 2006	2006 to 2012	2000 to 2012			
Connecticut Maine Massachusetts New Hampshire New Jersey New York Pennsylvania Rhode Island Vermont Midwest Illinois Indiana Iowa Kansas Michigan Minnesota Missouri Nebraska North Dakota Ohio South Dakota Wisconsin South Alabama Arkansas Delaware District of Columbia Florida Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia Vest Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		5.7	-1.6	1.2	-0.4			
Connecticut Maine Massachusetts New Hampshire New Jersey New York Pennsylvania Rhode Island Vermont Midwest Illinois Indiana Iowa Kansas Michigan Minnesota Missouri Nebraska North Dakota Ohio South Dakota Wisconsin South Alabama Arkansas Delaware District of Columbia Florida Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia Vest Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		4.6	-4.7	-2.7	-7.2			
Maine Massachusetts New Hampshire New Jersey New York Pennsylvania Rhode Island Vermont Midwest Illinois Indiana Iowa Kansas Michigan Minnesota Missouri Nebraska North Dakota Ohio South Dakota Wisconsin Jouth Alabama Arkansas Delaware District of Columbia Florida Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia Vest Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon	***************************************	8.2	-7.4	-3.3				
Massachusetts New Hampshire New Jersey New York Pennsylvania Rhode Island Vermont Midwest Illinois Indiana Iowa Kansas Michigan Minnesota Missouri Nebraska North Dakota Ohio South Dakota Wisconsin outh Alabama Arkansas Delaware District of Columbia Florida Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia West Virginia /est Alaska Arizona California Colorado Hawaii Idaho Montana New Mexico Oregon	••••••	-6.5			-10.5			
New Hampshire New Jersey New York Pennsylvania Rhode Island Vermont Midwest Illinois Indiana Iowa Kansas Michigan Minnesota Missouri Nebraska North Dakota Ohio South Dakota Wisconsin Misconsin Mi			-4.4	0.8	-3.6			
New Jersey New York Pennsylvania Rhode Island Vermont Midwest Illinois Indiana Iowa Kansas Michigan Minnesota Missouri Nebraska North Dakota Ohio South Dakota Wisconsin Misconsin South Alabama Arkansas Delaware District of Columbia Florida Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia Vest Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		6.7	-6.6	-3.2	-9.6			
New York Pennsylvania Rhode Island Vermont Midwest Illinois Indiana Iowa Kansas Michigan Minnesota Missouri Nebraska North Dakota Ohio South Dakota Wisconsin Mouth Alabama Arkansas Delaware District of Columbia Florida Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia West Virginia Vest Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		6.0	-3.6	0.3	-3.3			
Pennsylvania Rhode Island Vermont Midwest Illinois Indiana Iowa Kansas Michigan Minnesota Missouri Nebraska North Dakota Ohio South Dakota Wisconsin South Alabama Arkansas Delaware District of Columbia Florida Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia West Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		10.5	-2.7	-1.8	-4.4			
Rhode Island Vermont Midwest Illinois Indiana Iowa Kansas Michigan Minnesota Missouri Nebraska North Dakota Ohio South Dakota Wisconsin South Alabama Arkansas Delaware District of Columbia Florida Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia Vest Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon	,	4.1	-5.0	-3.2	-8.0			
Vermont Midwest Illinois Indiana Iowa Kansas Michigan Minnesota Missouri Nebraska North Dakota Ohio South Dakota Wisconsin South Alabama Arkansas Delaware District of Columbia Florida Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia Vest Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		1.1	-3.9	-3.0	-6.8			
Midwest Illinois Indiana Iowa Kansas Michigan Minnesota Missouri Nebraska North Dakota Ohio South Dakota Wisconsin South Alabama Arkansas Delaware District of Columbia Florida Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia West Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		5.2	-6.3	-2.2	-8.4			
Illinois Indiana Iowa Kansas Michigan Minnesota Missouri Nebraska North Dakota Ohio South Dakota Wisconsin South Alabama Arkansas Delaware District of Columbia Florida Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia West Virginia Vest Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		-7.0	-2.7	0.1	-2.6			
Indiana Iowa Kansas Michigan Minnesota Missouri Nebraska North Dakota Ohio South Dakota Wisconsin South Alabama Arkansas Delaware District of Columbia Florida Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia West Virginia Vest Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2.3	-3.5	-0.7	-4.2			
Indiana Iowa Kansas Michigan Minnesota Missouri Nebraska North Dakota Ohio South Dakota Wisconsin South Alabama Arkansas Delaware District of Columbia Florida Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia West Virginia West Virginia Colorado Hawaii Idaho Montana Nevada New Mexico Oregon	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7.7	-2.4	-1.5				
Iowa Kansas Michigan Minnesota Missouri Nebraska North Dakota Ohio South Dakota Wisconsin South Alabama Arkansas Delaware District of Columbia Florida Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia West Virginia Vest Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		3.6	-2.1		-3.8			
Kansas Michigan Minnesota Missouri Nebraska North Dakota Ohio South Dakota Wisconsin South Alabama Arkansas Delaware District of Columbia Florida Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia West Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon	,	-3.5		-1.7	-3.8			
Michigan Minnesota Missouri Nebraska North Dakota Ohio South Dakota Wisconsin South Alabama Arkansas Delaware District of Columbia Florida Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia West Virginia Vest Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon			-4.0	-0.7	-4.7			
Minnesota Missouri Nebraska North Dakota Ohio South Dakota Wisconsin South Alabama Arkansas Delaware District of Columbia Florida Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia West Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		-1.8	-1.6	2.8	1.2			
Missouri Nebraska North Dakota Ohio South Dakota Wisconsin South Alabama Arkansas Delaware District of Columbia Florida Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia West Virginia West Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		7.3	-6.4	-2.4	-8.6			
Nebraska North Dakota Ohio South Dakota Wisconsin South Alabama Arkansas Delaware District of Columbia Florida Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia West Virginia West Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		-0.6	-4.3	1.6	-2.8			
North Dakota Ohio South Dakota Wisconsin South Alabama Arkansas Delaware District of Columbia Florida Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia West Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		2.6	-3.3	0.6	-2.7			
Ohio South Dakota Wisconsin South Alabama Arkansas Delaware District of Columbia Florida Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia West Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		-3.7	-0.7	3.0	2.3			
South Dakota Wisconsin South Alabama Arkansas Delaware District of Columbia Florida Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia West Virginia West Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		-13.2	-3.0	3.5	0.4			
Wisconsin South Alabama Arkansas Delaware District of Columbia Florida Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia West Virginia Vest Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		-0 .1	-4.1	-2.2	-6.2			
Alabama Arkansas Delaware District of Columbia Florida Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia West Virginia Vest Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		-13.7	1.8	4.6	6.5			
Alabama Arkansas Delaware District of Columbia Florida Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia West Virginia Vest Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		-1.1	-3.2	0.9	-2.4			
Arkansas Delaware District of Columbia Florida Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia West Virginia Vest Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		6.1	-1.1	0.8	0.3			
Arkansas Delaware District of Columbia Florida Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia West Virginia Vest Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		0.7	-1.5		-0.3			
Delaware District of Columbia Florida Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia West Virginia Vest Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		-0.4		-1.1	-2.6			
District of Columbia Florida Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia West Virginia Vest Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		5.2	-3.1	-1.5	-4.6			
Florida Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia Vest Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		-13.6	-0.6	-2.6	-3.1			
Georgia Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia West Virginia Colorado Hawaii Idaho Montana Nevada New Mexico Oregon	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-9.5	8.1	-2.2			
Kentucky Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia West Virginia Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		12.1	-3.3	0.5	-2.8			
Louisiana Maryland Mississippi North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia West Virginia Vest Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		13.4	0.7	1.2	1.9			
Maryland Mississippi North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia West Virginia Vest Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		1.0	-0.1	-3.9	-4.0			
Mississippi North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia West Virginia Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		-6.4	-2.8	1.1	-1.7			
North Carolina Oklahoma South Carolina Tennessee Texas Virginia West Virginia Vest Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		4.9	-2.5	0.1	-2.4			
Oklahoma South Carolina Tennessee Texas Virginia West Virginia West Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		-0.8	-0.8	-2.3	-3.1			
South Carolina Tennessee Texas Virginia West Virginia West Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		11.6	-4.2	-3.0	-7.1			
Tennessee Texas Virginia West Virginia Vest Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		0.6	-6.9	2.1	-5.0			
Texas Virginia West Virginia West Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5.2	-3.5	-1.7	-5.1			
Virginia West Virginia West Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		4.3	-0.5	0.0	-0.6			
Virginia West Virginia Vest Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		8.2	1.8	5.1				
West Virginia West Alaska Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon	***************************************	5.4	2.1	-0.9	7.0			
Alaska	······································	-5.5	-4.1	-0.9 -4.3	1.2 -8.2			
Alaska		0.0						
Arizona California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		9.2	1.8	6.2	8.0			
California Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		0.8	5.4	12.0	18.1			
Colorado Hawaii Idaho Montana Nevada New Mexico Oregon		18.0	2.7	2.8	5.6			
Hawaii Idaho Montana Nevada New Mexico Oregon		11.5	1.3	7.3	8.8			
Idaho Montana Nevada New Mexico Oregon		10.0	1.2	2.6	3.8			
Montana Nevada New Mexico Oregon		-1.0	8.4	9.9	19.1			
New Mexico	***************************************	0.9	9.6	8.1	18.5			
Nevada		-9.9	4.0	6.6	10.8			
New Mexico	***************************************	35.3	0.3	-1.9				
Oregon		-1.9	7.7		-l.6			
_		2.0		9.7	18.1			
Utah			-1.6	3.5	1.9			
177 1 1	***************************************	1.5	4.4	7.1	11.9			
117 '		3.2 -14.2	-1.3 8,0	4.3 13.2	2.9			

NOTE: Calculations are based on unrounded numbers. Includes most kindergarten and some nursery school enrollment. Mean absolute percentage errors of selected education statistics can be found in table A2.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data surveys and State Public Elementary and Secondary Enrollment Model. (This table was prepared May 2002.)



Table 8.—Enrollment in grades 9-12 in public schools, by region and state, with projections: Fall 1994 to fall 2012

					Actual				P	rojected	
Region and	state —	1994	1995	1996	1997	1998	1999	2000	00 2001	2002	2003
United States		12,213	12,500	12,847	13,054	13,193	13,369	13,514	13,678	13,857	14,069
Northeast		2,192	2,235	2,277	2,311	2,326	2,355	2,391	2,442	2,493	2,541
Connecticut		131	134	138	141	145	150	156	161	165	169
Maine		57	58	58	59	60	60	61	61	61	61
Massachusetts		235	240	246	253	258	265	273	279	286	293
New Hampshire		50	52	54	56	58	60	61	63	64	65
New Jersey		312	317	325	329	333	335	355	370	383	396
New York	,	817	833	843	851	849	854	853	862	878	892
		521	531	541	549	549	555	556	569	579	589
Pennsylvania		40	40	41	42	42	43	44	44	45	46
Rhode Island Vermont		29	30	31	32	32	32	32	32	31	31
		2.000	2.064	2 124	3,151	3,156	3,175	3,196	3,197	3,207	3,219
Midwest		2,999	3,064	3,134 561	560	560	565	575	587	595	603
Illinois		548	553	294	294	292	289	286	284	285	289
Indiana		290	293					161	159	158	157
Iowa		155	158	161	163	162	161	147	145	144	143
Kansas		132	134	138	141	145	146	147 488	486	488	491
Michigan		445	450	473	467	475 270	481	455 277	486 276	277	276
Minnesota		240	249	258	266	270	274			268	268
Missouri		250	254	257	261	263	265	268	267		208 88
Nebraska		84	87	89	91	91	91	91	90	89	
North Dakota		36	37	38	38	38	38	37	36	35	34
Ohio		519	539	546	548	541	540	541	541	543	546
South Dakota		42	43	44	45	42	41	41	40	39	38
Wisconsin		259	267	274	278	279	281	285	286	286	286
South		4,247	4,346	4,462	4,541	4,586	4,650	4,693	4,759	4,818	4,901
Alabama		201	207	208	208	206	202	201	201	200	200
Arkansas		128	131	133	134	133	133	132	131	130	130
Delaware		30	31	33	33	33	33	34	34	35	35
District of Columbia		18	18	18	17	15	17	15	15	14	14
Florida		542	563	589	614	634	656	675	693	712	741
Georgia	,	336	345	356	365	372	379	385	393	401	411
Kentucky		191	192	190	195	191	190	194	195	195	195
Louisiana	,.,,	214	217	218	213	210	209	197	201	198	196
Maryland		210	215	222	229	235	239	244	251	256	261
Mississippi		139	140	140	140	137	135	134	132	131	131
North Carolina		309	312	324	330	334	341	348	356	365	377
Oklahoma	***************************************	167	171	175	179	181	180	178	175	173	172
South Carolina		180	182	185	187	187	183	184	188	192	196
Tennessee		241	243	248	240	241	252	241	242	244	249
Texas		957	991	1,029	1,059	1,077	1,096	1,117	1,132	1,145	1,154
Virginia		286	292	300	304	309	317	329	337	345	353
West Virginia		98	96	95	94	92	88	85	83	83	82
West		2,775	2,854	2,974	3,051	3,125	3,189	3,234	3,281	3,339	3,409
Alaska		33	34	36	36	38	39	39	39	40	40
		195	195	211	218	226	229	237	242	249	257
Arizona Colifornio		1,452	1,495	1,557	1,608	1,656	1,702	1,733	1,767	1,810	1,856
California Calorado		1,432	1,493	1,557	193	198	202	208	212	216	220
Colorado		50	52	51	53	53	53	52	52	52	53
Hawaii Idaha		72	74	76	76	76	77	75	74	74	75
Idaho Mantana		72 48	74 49	50	50	50	50	50	49	48	47
Montana		48 65	69	74	78	82	86	90	94	100	109
Nevada				103	76 96	96	96	95	96	95	94
New Mexico		98	100			163	167	167	167	167	169
Oregon		150	152	158	160		151	148	146	146	145
Utah		146	149	154	154	153 302	309	310	312	313	316
Washington		265	277	287	297		309	30	29	28	27
Wyoming		30	31	32	32	31	<u> </u>			20	



Table 8.—Enrollment in grades 9-12 in public schools, by region and state, with projections: Fall 1994 to fall 2012—Continued

United States	ion and state -	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States								2010	2011	2012
		14,346	14,597	14,739	14,768	14,649	14,485	14,317	14,197	14,137
Northeast		2,596	2,631	2,639	2,622	2,573	2,523	2,487	2,458	2,444
Connecticut		173	175	176	176	174	170	165	161	158
Maine		61	60	59	58	56	54	54	54	55
Massachusetts	***************************************	301	305	307	304	293	285	279	275	275
New Hampshire		66	66	66	65	63	62	62	62	62
New Jersey	***************************************	407	417	422	422	419	413	407	401	397
New York		912	925	926	919	904	889	877	867	860
Pennsylvania		598	605	606	602	589	577	571	566	565
Rhode Island		47	48	48	47	47	45	44	44	43
Vermont		31	30	30	29	28	27	28	28	29
Midwest		3,259	3,298	3,314	3,306	3,256	3,206	3,166	3,136	3 123
Illinois		618	633	641	648	647	640	631	620	3,123 611
Indiana		296	302	306	306	303	299	296	293	291
Iowa	***************************************	158	159	160	159	156	153	151	293 149	291 149
Kansas		143	143	142	141	139	139	131	138	139
Michigan		502	509	511	508	497	485	478	472	469
Minnesota		278	278	277	274	269	265	261	259	258
Missouri	***************************************	271	274	278	277	272	266	261	259	260
Nebraska	***************************************	88	88	87	87	85	84	84	85	260 86
North Dakota	***************************************	33	32	31	30	29	29	29	29	30
Ohio	***************************************	551	557	559	557	548	539	531	525	523
South Dakota	***************************************	37	37	36	35	34	34	35	35	36
Wisconsin		286	286	285	283	277	273	271	270	271
South		4,985	5,079	5,146	5,171	5,161	5,122	5,051	5,002	4,970
Alabama	***************************************	204	206	207	207	203	203	201	200	201
Arkansas		132	134	135	134	131	130	128	128	127
Delaware		35	35	36	36	36	36	36		
District of Columbia		14	14	14	14	13	12	12	36 12	35 12
Florida		754	772	783	788	792	777	758	744	731
Georgia		425	435	442	446	445	445	441	438	
Kentucky	***************************************	196	200	203	207	210	209	208	205	436
Louisiana		194	195	195	193	194	190	188	186	202 186
Maryland		266	271	271	269	265	261	259	258	
Mississippi		133	135	137	137	135	135	134		258
North Carolina		389	398	404	406	405	399		133	133
Oklahoma		172	172	173	172	168	164	389	381	373
South Carolina		196	200	203	202	202	198	160 196	158 194	157
Tennessee		256	262	266	266	261	259	257		193
Texas		1,173	1,192	1,212	1,230	1,238	1,241	1,228	256	257
Virginia		364	374	382	384	383	382	379	1,220 377	1,216
West Virginia		82	82	82	81	79	78	78	78	375 78
Vest		3,506	3,589	3,640	3,669	3,659	2 624	2 (12	2 (01	2 (00
Alaska		41	41	41	40	3,039	3,634 39	3,613 39	3,601 40	3,600
Arizona		267	277	286	292	-				42
California		1,925	1,979	2,005	2,028	296	296	291	288	284
Colorado		224	229	-		2,025	2,001	1,991	1,979	1,972
Hawaii		54	54	233	236	237	236	233	232	231
Idaho		76	77	53 78	53 78	51 77	52 70	54	55	57
Montana		47	46		78 45	77 43	79 44	81	82	85
Nevada				46	45	43	44	44	45	47
New Mexico		114 95	121 95	127	132	135	134	130	125	121
Oregon		93 171	93 173	95 174	94	91	93	95	97	101
		1/1	1/3	174	172	169	167	166	166	166
-		146	140	140	160	160	101	1.00	1.00	
Utah Washington		146 320	148 323	149 326	150 325	150 320	151 316	152 313	153 312	155 313

NOTE: Some data have been revised from previously published figures. Detail may not sum to totals due to rounding. Mean absolute percentage errors of selected education statistics can be found in table A2.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data surveys and State Public Elementary and Secondary Enrollment Model. (This table was prepared May 2002.)



Table 9.—Percent change in grades 9-12 enrollment in public schools, by region and state, with projections:

	Duratura and state	Actual		Projected	
	Region and state —	1994 to 2000	2000 to 2006	2006 to 2012	2000 to 2012
United States		10.7	9.1	-4.1	4.6
		9.1	10.4	-7.4	2.2
Northeast		18.7	13.1	-10.4	1.3
Connecticut		8.2	-3.6	-6.7	-10.1
Maine			12.5	-10.3	1.0
Massachusetts		15.9		-5.3	1.8
New Hampshire		21.5	7.4	-5.9	11.7
New Jersey		13.9	18.8		0.8
New York		4.4	8.5	-7.1	
Pennsylvania		6.8	8.8	-6.8	1.5
Rhode Island		10.7	9.6	-9.8	-1.1
Vermont		9.6	-5.8	-4.2	-9.8
N 6: J		6.6	3.7	-5.8	-2.3
Midwest		4.9	11.6	-4.7	6.4
Illinois		-1.4	6.8	-4.6	1.9
Indiana		4,3	-0.7	-7.0	-7.7
Iowa			-3.3	-2.7	-5.9
Kansas		12.0	4.7	-8.2	-3.9
Michigan		9.7		-6.7	-6.0
Minnesota		15.1	0.1	-6.7 -6.7	-3.1
Missouri		7.1	3.8		
Nebraska	***************************************	7.9	-3.6	-2.2	-5.1
North Dakota	*	2.5	-15.2	-4.3	-18.8
Ohio		4.3	3.2	-6.4	-3.4
South Dakota		-2.2	-11.5	0.5	-11.0
Wisconsin		9.8	0.3	-5.0	-4.1
5 d		10.5	9.6	-3.4	5.9
South		0.0	2.7	-3.0	-0.4
Alabama		2.8	2.3	-5.6	-3.:
Arkansas			5.5	-1.2	4.2
Delaware		12.9	-5.9	-18.1	-22.9
District of Columbia		-16.8		-6.6	8.4
Florida		24.6	16.1		13.3
Georgia		14.5	14.9	-1.4	3.9
Kentucky		1.9	4.3	-0.4	
Louisiana		-8.2	-0.9	-4.5	-5.:
Maryland		16.1	11.1	-4.9	5.1
Mississippi		-3.7	2.2	-3.1	-0.
North Carolina		12.6	16.2	-7.7	7.:
Oklahoma		6.3	-2.6	-9.4	-11.
South Carolina		2.4	10.0	-4.7	4,
Tennessee		0.1	10.5	-3.5	6.
*		16.7	8.6	0.3	8.9
Texas		14.9	16.0	-1.8	13.
Virginia West Virginia		-12.8	-3.5	-5.5	-8.
West virginia					
West		16.6	12.5	-1.1	11. 7.
Alaska		16.7	5.4	1.6	
Arizona		21.9	20.5	-0.7	19.
California		19.4	15.7	-1.7	13.
Colorado		21.8	12.2	-0.8	11.
Hawaii		3.9	2.7	6,2	9.
Idaho		4.4	4.3	8.9	13.
		4.3	-7.6	2.8	-5.
Montana		37.6	41,3	-4.9	34.
Nevada		-2.7	-0.7	6.1	5.
New Mexico			4.0	-4.3	-0.
Oregon		11.3	0.7	3.7	4.
Utah		1.5		-4.1	0.
Washington		17.0	5.2		-8.
Wyoming	based on unrounded numbers. Mean absolute perc	-1.3	<u>-14.4</u>		

NOTE: Calculations are based on unrounded numbers. Mean absolute percentage errors of selected education statistics can be found in table A2.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data surveys and State Public Elementary and Secondary Enrollment Model. (This table was prepared May 2002.)



Chapter 2

Enrollment in Degree-Granting Institutions

Overall enrollment in degree-granting institutions is expected to rise between 2000 and 2012. Changes in college-age enrollment rates and age-specific populations will affect enrollment levels over the next 12 years (figures 13 and 14). The most important factor in the projected rise of college enrollment is the projected increase of 15 percent in the traditional college-age population of 18- to 24-year-olds from 2000 to 2012 (appendix table B4). The 25- to 29-year-old population is projected to decrease by 2 percent between 2000 and 2002, and then increase by 15 percent between 2002 and 2012, for a net increase of 13 percent. The 30- to 34-year-old population is expected to decrease by 7 percent between 2000 and 2007 and then increase 10 percent by 2012. The 35- to 44-year-old population is expected to decrease by 13 percent between 2000 and 2012. The increases in the younger population are expected to more than offset the loss of students from the older populations, thereby contributing to the increases in college enrollment over the projection period. The enrollment projections do not take into account such factors as the cost of a college education, the economic value of an education, and the impact of distance learning due to technological changes. These factors may produce changes in enrollment levels. Projections of college enrollment that have been produced over the past 6 years are more accurate than projections of doctor's degrees, but less accurate than projections of public elementary and secondary enrollment that NCES has published over the same time period. For more information, see table A2, page 79.

Total College Enrollment

For the nation, college enrollment increased from 13.8 million in 1990 to 14.5 million in 1992. Then it decreased to 14.3 million in 1995. Thereafter, it increased to 15.3 million in 2000 (table 10 and figure 15). Under the middle alternative, college enrollment is

* This term applies mainly to those institutions that provide study beyond secondary school and that offer programs terminating in an ciate, baccalaureate, or higher degree.

projected to rise to 17.7 million by 2012, an increase of 15 percent from 2000.

Under the low alternative, college enrollment is projected to increase from 15.3 million in 2000 to 17.1 million by 2012, an increase of 12 percent over the projection period.

Under the high alternative, college enrollment is expected to increase from 15.3 million in 2000 to 18.2 million by 2012, an increase of 19 percent over the projection period.

Enrollment, by Sex of Student

Women played a major role in the increase of enrollment between 1990 and 2000. The enrollment of women in college increased from 7.5 million in 1990 to 8.6 million in 2000, a 14 percent increase over the period (figure 17). Under the middle alternative, enrollment of women is expected to increase to 10.1 million by 2012, an increase of 18 percent from 2000. As a share of total college enrollment, women were 56 percent of all college students in 2000 compared with 55 percent in 1990. Women's share of college enrollment is projected to be 57 percent by 2012.

The enrollment of men in college increased from 6.3 million in 1990 to 6.5 million in 1992, before decreasing to 6.3 million in 1995. Thereafter, it increased to 6.7 million in 2000. Under the middle alternative, enrollment of men is expected to increase to 7.5 million by 2012, a 12 percent increase from 2000.

Enrollment, by Attendance Status

Full-time enrollment increased from 7.8 million in 1990 to 9.0 million in 2000, an increase of 15 percent (figure 19). Under the middle alternative, full-time enrollment is expected to increase another 19 percent to 10.7 million by 2012.

Part-time enrollment increased from 6.0 million in 1990 to 6.3 million in 1992. Then it decreased to 5.9 million in 1998, before increasing to 6.3 million in 2000. Under the middle alternative, part-time enrollment is expected to increase to 6.9 million by 2012, an increase



Enrollment, by Age

The alternative projections of enrollment in degree-granting institutions by age, sex, and attendance status are shown in table 11 (middle alternative), table 12 (low alternative), and table 13 (high alternative). Projections of college attendance rates appear in appendix table A1.1. These projections are based on age-specific enrollment data from the U.S. Census Bureau and enrollment data from NCES.

Under the middle alternative, the period from 1992 to 2012 will be one of change in the age distribution of college students. In contrast to recent patterns, younger students are expected to become more prevalent on college campuses. The enrollment of students who are 18 to 24 years old increased from 8.2 million in 1992 to 9.2 million in 2000, an increase of 12 percent (table 11 and figure 31). This number is expected to increase to 10.7 million by 2012, an increase of 17 percent from 2000. As a result, the proportion of students who are 18 to 24 years old, which increased from 57 percent in 1992 to 60 percent in 2000, is projected to be 61 percent by 2012.

The enrollment of students who are 25 years and over decreased from 6.1 million in 1992 to 6.0 million in 2000, a decrease of 2 percent. This number is projected to be 6.7 million in 2012, an increase of 12 percent. The proportion of students 25 years old and over decreased from 42 percent in 1992 to 39 percent in 2000. This proportion is projected to decrease slightly to 38 percent by 2012.

Enrollment, by Control of Institution

Enrollment in public institutions grew from 10.8 million in 1990 to 11.4 million in 1992, and then decreased to 11.1 million in 1995 followed by a rise to 11.8 million in 2000, for a net increase of 8 percent over the period (table 10 and figure 21). Under the middle alternative, public enrollment is expected to increase to 13.5 million by 2012, an increase of 15 percent over the projection period.

Enrollment in private institutions, which include not-for-profit and for-profit institutions, increased from 3.0 million in 1990 to 3.6 million in 2000, an increase of 20 percent over the period. Under the middle alternative, private enrollment is expected to increase to 4.1 million by 2012, an increase of 16 percent over the projection period.

Enrollment, by Type and Control of Institution

Enrollment in public 4-year institutions increased from 5.8 million in 1990 to 6.1 million in 2000, an increase of 4 percent over the period (table 15). Under the middle alternative, this enrollment is expected to rise to 7.2 million by 2012, a 19 percent increase from 2000.

Enrollment in public 2-year institutions rose from 5.0 million in 1990 to 5.7 million in 2000, an increase of 14 percent over the period (table 16). Under the middle alternative, enrollment in public 2-year institutions is expected to rise to 6.3 million by 2012, an 11 percent increase over the projection period.

Enrollment in private 4-year institutions increased from 2.7 million in 1990 to 3.3 million in 2000, an increase of 21 percent over the period (table 17). Under the middle alternative, this enrollment is expected to rise to 3.8 million by 2012, a 16 percent increase over the projection period.

Enrollment in private 2-year institutions increased from 244,000 in 1990 to 251,000 in 2000, an increase of 3 percent over the period (table 18). Under the middle alternative, enrollment in private 2-year institutions is expected to rise to 301,000 by 2012, a 20 percent increase over the projection period.

Enrollment, by Level

Undergraduate enrollment increased from 12.0 million in 1990 to 13.2 million in 2000, a 10 percent increase over the period (table 19 and figure 25). Under the middle alternative, undergraduate enrollment is expected to increase to 15.3 million by 2012, a 16 percent increase over the projection period.

Graduate enrollment rose from 1.6 million in 1990 to 1.9 million in 2000, a 17-percent increase over the period (table 20 and figure 27). Under the middle alternative, graduate enrollment is expected to increase to 2.1 million by 2012, a 12 percent increase over the projection period.

First-professional enrollment increased from 273,000 in 1990 to 307,000 in 2000, a 12 percent increase over the period (table 21 and figure 27). Under the middle alternative, first-professional enrollment is expected to increase to 347,000 by 2012. This represents a 13 percent increase from 2000.



Full-Time-Equivalent Enrollment

Full-time-equivalent enrollment increased from 10.0 million in 1990 to 11.3 million in 2000, a 13 percent increase over the period (table 22 and figure 29). Under the middle alternative, full-time-equivalent enrollment is expected to increase to 13.2 million by 2012, a 17 percent increase over the projection period.

Alternative Projections

College enrollment projections were based on projected enrollment rates, by age and sex, which were then applied to population projections by age and sex developed by the U.S. Census Bureau. The middle series population projections, which assume middle fertility and yearly net migration, were used.

Three sets of projections are presented for enrollment in degree-granting institutions to indicate a range of possible outcomes. Each set of projections is based on alternative assumptions. The middle alternative is based on the base scenario of the economy developed by the company DRI-WEFA Inc., for the projections of disposable income and unemployment rates. Under the middle alternative, the higher education enrollment model interprets the college enrollment decision as a static, short-term economic decision, i.e., potential consumers for higher education weigh the economic costs before making a decision to study or work. Thus, the model assumes that a representative student gives greater importance to current earnings potential over lifetime earning potential. The model has two explanatory variables, the unemployment rate and real disposable income. The unemployment rate serves as a proxy for the attractiveness of the current working environment. A weak labor market increases the attractiveness of a college education. Real disposable income captures a student's ability to afford the costs of attending college. These relationships are assumed through 2012. For more information, see appendix A, section A.1.

The low and high alternatives incorporate past errors of projections of college enrollment to provide other possible outcomes.



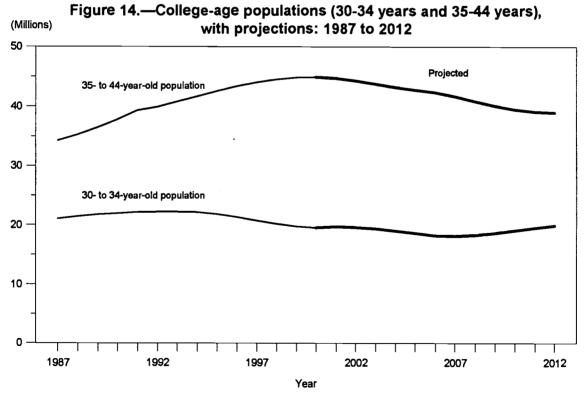
Figure 13.—College-age populations (18-24 years and 25-29 years), with projections: 1987 to 2012

Projected

18- to 24-year-old population

Year

SOURCE: U.S. Department of Commerce, Bureau of the Census, *Current Population Reports*, Series P-25, Nos. 1092, 1095, and "National Population Estimates," December 2001, and "Annual Projections of the Total Resident Population: 1999 to 2100," January 2000.



SOURCE: U.S. Department of Commerce, Bureau of the Census, *Current Population Reports*, Series P-25, Nos. 1092, 1095, and "National Population Estimates," December 2001, and "Annual Projections of the Total Resident Population: 1999 to 2100," January 2000.



(Millions)

25- to 29-year-old population

Figure 15.—Enrollment in degree-granting institutions, with alternative projections: Fall 1987 to fall 2012

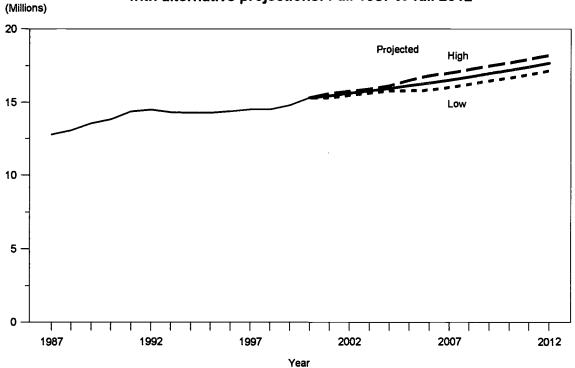


Figure 16.—Average annual growth rates for total enrollment in degree-granting institutions: Fall 1987 to fall 2012

(Average annual percent)

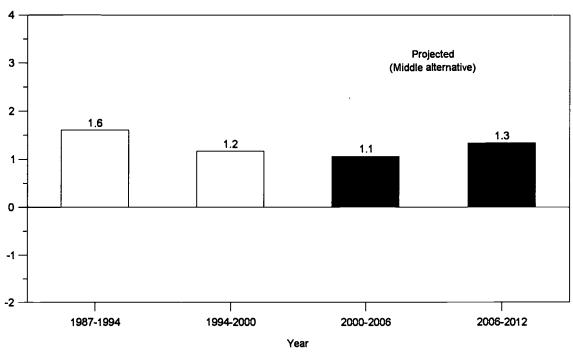




Figure 17.—Enrollment in degree-granting institutions, by sex, with middle alternative projections: Fall 1987 to fall 2012

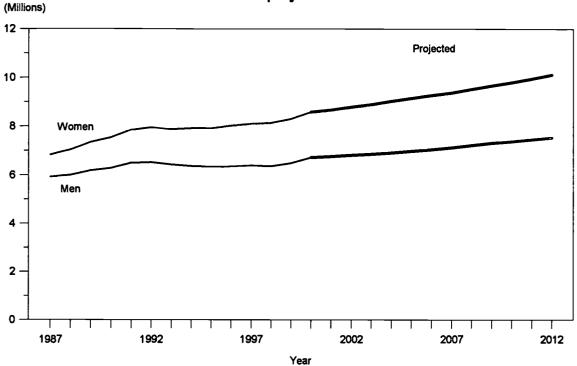


Figure 18.—Average annual growth rates for total enrollment in degree-granting institutions, by sex: Fall 1987 to fall 2012

(Average annual percent)

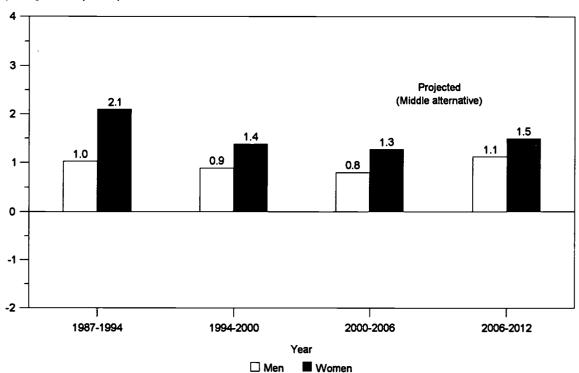




Figure 19.—Enrollment in degree-granting institutions, by attendance status, with middle alternative projections: Fall 1987 to fall 2012

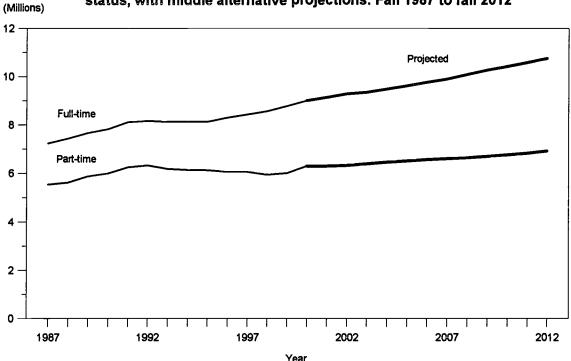


Figure 20.—Average annual rates of change for total enrollment in degree-granting institutions, by attendance status: Fall 1987 to fall 2012

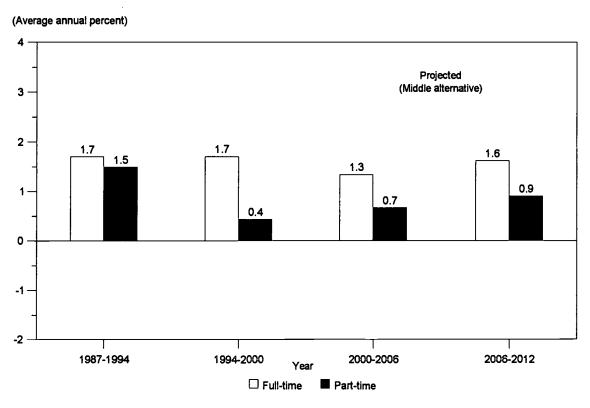




Figure 21.—Enrollment in degree-granting institutions, by control of institution, with alternative projections: Fall 1987 to fall 2012

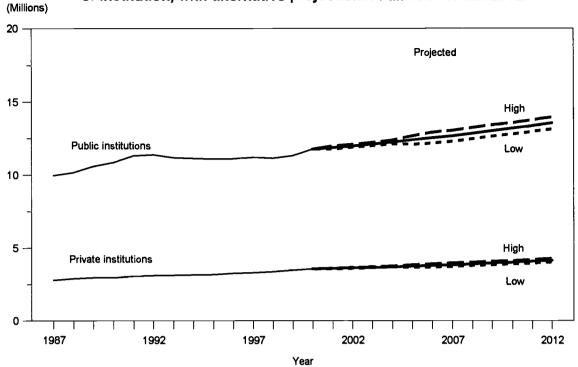


Figure 22.—Average annual growth rates for total enrollment in degree-granting institutions, by control of institution: Fall 1987 to fall 2012

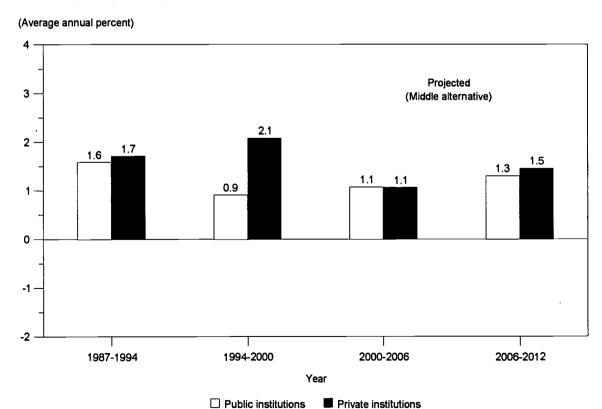




Figure 23.—Enrollment in degree-granting institutions, by type of institution, with alternative projections: Fall 1987 to fall 2012

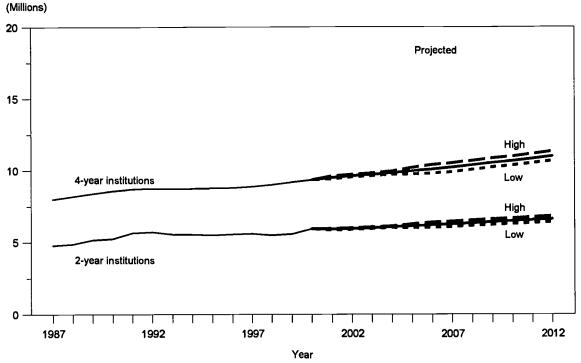


Figure 24.—Average annual growth rates for total enrollment in degree-granting institutions, by type of institution: Fall 1987 to fall 2012

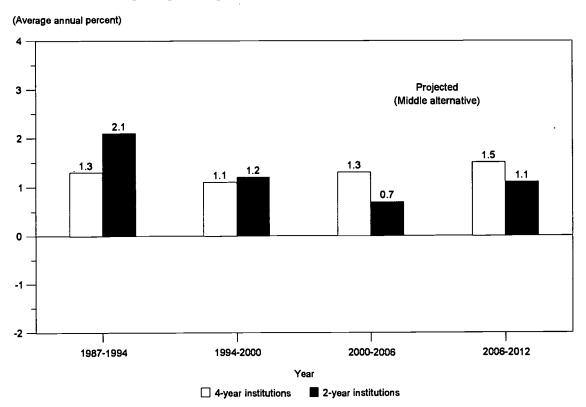




Figure 25.—Undergraduate enrollment in degree-granting institutions, with alternative projections: Fall 1987 to fall 2012

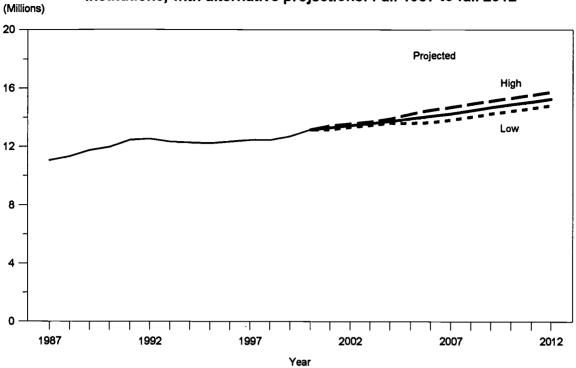


Figure 26.—Average annual growth rates for undergraduate enrollment in degree-granting institutions: Fall 1987 to fall 2012 (Average annual percent)

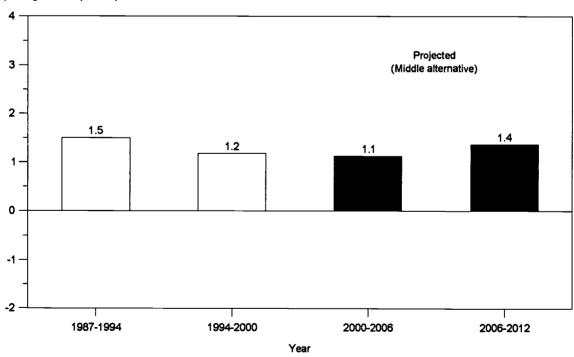




Figure 27.—Postbaccalaureate enrollment in degree-granting institutions, with alternative projections: Fall 1987 to fall 2012

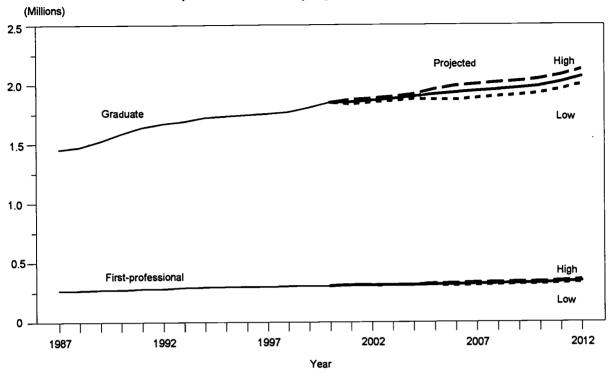


Figure 28.—Average annual growth rates for postbaccalaureate enrollment in degree-granting institutions: Fall 1987 to fall 2012

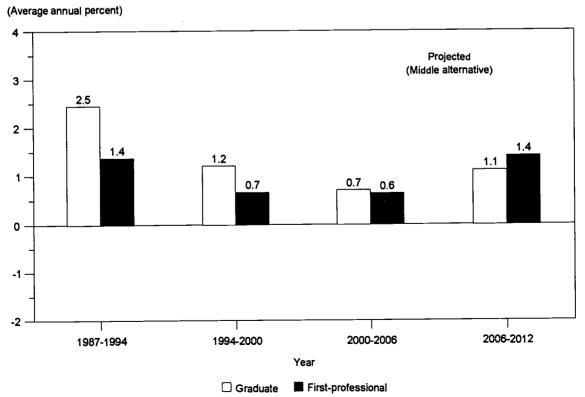
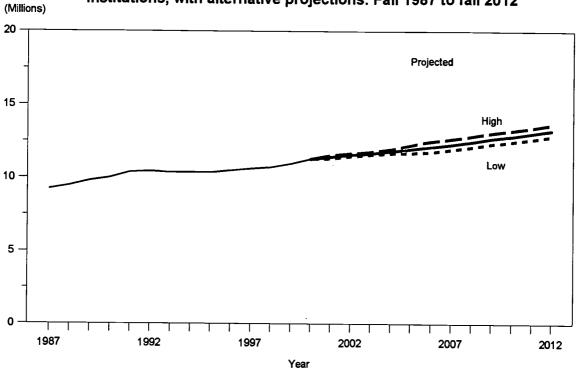




Figure 29.—Full-time-equivalent enrollment in degree-granting institutions, with alternative projections: Fall 1987 to fall 2012



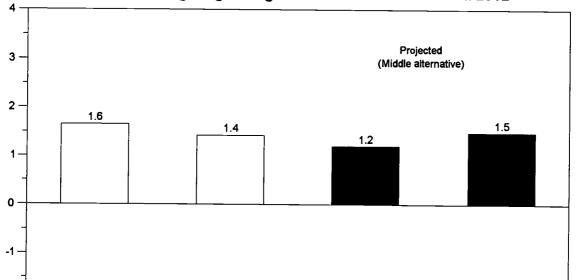


Figure 30.—Average annual growth rates for full-time-equivalent enrollment (Average annual percent) in degree-granting institutions: Fall 1987 to fall 2012

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Fall Enrollment in Colleges and Universities" surveys; Integrated Postsecondary Education Data System (IPEDS) surveys; and Enrollment in Degree-Granting Institutions Model.

Year

1994-2000



1987-1994

2000-2006

2006-2012

Figure 31.—Enrollment in degree-granting institutions, by age group, with middle alternative projections: Fall 1992, 2002, and 2012

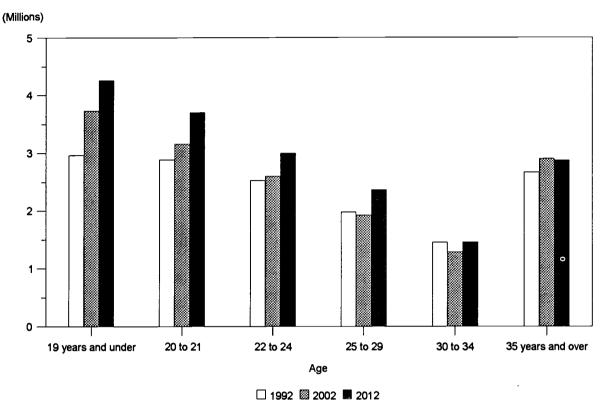




Figure 32.—Enrollment of men in degree-granting institutions, by age group, with middle alternative projections: Fall 1992, 2002, and 2012

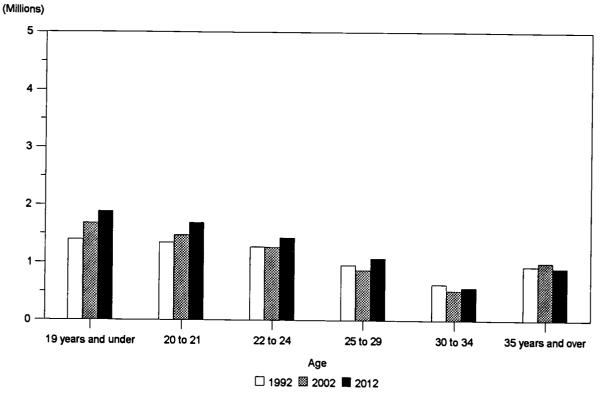


Figure 33.—Enrollment of women in degree-granting institutions, by age group, with middle alternative projections: Fall 1992, 2002, and 2012

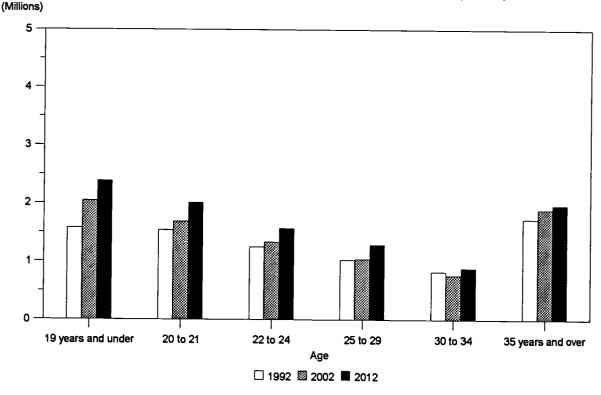




Table 10.—Total enrollment in all degree-granting institutions, by sex, attendance status, and control of institution, with alternative projections: Fall 1987 to fall 2012

		T . 1	Sex		Attendan	ce status	Contr	ol
	Year	Total —	Men	Women	Full-time	Part-time	Public	Private
1987		12,767	5,932	6,835	7,231	5,536	9,973	2,793
1988		13,055	6,002	7,053	7,437	5,618	10,161	2,894
1989		13,539	6,190	7,349	7,661	5,878	10,578	2,961
1990	***************************************	13,819	6,284	7,535	7,821	5,998	10,845	2,974
1991		14,359	6,502	7,857	8,115	6,244	11,310	3,049
1992		14,486	6,524	7,963	8,161	6,325	11,385	3,102
1993	***************************************	14,305	6,427	7,877	8,128	6,177	11,189	3,116
1994		14,279	6,372	7,907	8,138	6,141	11,134	3,145
1995	······································	14,262	6,343	7,919	8,129	6,133	11,092	3,169
1996	***************************************	14,368	6,353	8,015	8,303	6,065	11,120	3,247
1997	***************************************	14,502	6,396	8,106	8,438	6,064	11,196	3,306
998	»···	14,507	6,369	8,138	8,563	5,944	11,138	3,369
1999		14,791	6,491	8,301	8,786	6,005	11,309	3,482
2000	>>>>>	15,312	6,722	8,591	9,010	6,303	11,753	3,560
		•		Middle al	ternative proj	ections		
2001		15,442	6,772	8,670	9,141	6,300	11,864	3,578
2002		15,608	6,817	8,791	9,281	6,327	11,986	3,622
2002		15,756	6,860	8,896	9,358	6,398	12,101	3,655
2003		15,947	6,919	9,027	9,481	6,465	12,247	3,699
2005	***************************************	16,135	6,985	9,150	9,615	6,519	12,388	3,746
2006		16,321	7,052	9,269	9,761	6,561	12,528	3,793
2007		16,503	7,124	9,380	9,904	6,600	12,665	3,839
2007	***************************************	16,738	7,216	9,522	10,089	6,649	12,842	3,896
		16,978	7,309	9,669	10,276	6,702	13,023	3,955
2009	***************************************	17,185	7,380	9,805	10,422	6,763	13,179	4,007
2010		•	7,360 7,460	9,958	10,580	6,838	13,351	4,068
2011		17,418 17,673	7,542	10,131	10,749	6,924	13,537	4,136
2012	***************************************	17,073	1,542	-		·	.5,55	1,130
		14.000			ernative proje		11.745	3,542
2001	.,	15,288	6,704	8,583	9,050	6,237	11,745	•
2002		15,468	6,756	8,712	9,197	6,270	11,878	3,589
2003	***************************************	15,614	6,798	8,816	9,274	6,340	11,992	3,622
2004		15,772	6,843	8,928	9,377	6,394	12,112	3,658
2005		15,780	6,831	8,949	9,403	6,376	12,115	3,664
2006		15,831	6,840	8,991	9,468	6,364	12,152	3,679
2007		16,008	6,910	9,099	9,607	6,402	12,285	3,724
2008		16,236	7,000	9,236	9,786	6,450	12,457	3,779
2009	***************************************	16,469	7,090	9,379	9,968	6,501	12,632	3,836
2010	***************************************	16,669	7,159	9,511	10,109	6,560	12,784	3,887
2011	***********************************	16,895	7,236	9,659	10,263	6,633	12,950	3,946
2012		17,143	7,316	9,827	10,427	6,716	13,131	4,012
				High alt	ernative proje	ections		
2001		15,596	6,840	8,757	9,232	6,363	11,983	3,614
2002	***************************************	15,748	6,878	8,870	9,365	6,384	12,094	3,655
2003	***************************************	15,898	6,922	8,976	9,442	6,456	12,210	3,688
2004		16,122	6,995	9,126	9,585	6,536	12,382	3,740
2005	h	16,490	7,139	9,351	9,827	6,662	12,661	3,828
2006	***************************************	16,811	7,264	9,547	10,054	6,758	12,904	3,907
2007	***************************************	16,998	7,338	9,661	10,201	6,798	13,045	3,954
2007	***************************************	17,240	7,432	9,808	10,392	6,848	13,227	4,013
2009		17,487	7,528	9,959	10,584	6,903	13,414	4,074
2010		17,701	7,601	10,099	10,735	6,966	13,574	4,127
2010	•••••••••••••	17,701	7,684	10,257	10,897	7,043	13,752	4,190
2011	***************************************	18,203	7,768	10,435	11,071	7,132	13,943	4,260

NOTE: Some data have been revised from previously published figures. Data for 1999 were imputed using alternative procedures. (For more details, see appendix E of *Projections of Education Statistics to 2011.*)

Detail may not sum to totals due to rounding. Mean absolute percentage errors of selected education statistics can be found in table A2.



Table 11.—Total enrollment in all degree-granting institutions, by sex, age, and attendance status, with middle alternative projections: Fall 1987 to fall 2012

Sex, age, and attendance status	1987	1988	1090	1000	1001		(III UIOU	<u>-</u>						
Men and women, total	12,767	13,055	1989	1990 13,819	1991 14,359	1992 14,486	1993	1994	1995	1996	1997	1998	1999	2000
14 to 17 years old	264	179	185	177	14,539	14,486	14,303	14,279 138	1 4,262 148	14,368	14,502	14,507	14,791	15,312
18 to 19 years old	3,012	2,940	3,041	2,950	2,864	2,784	2,840	2,787	2,894	231 3,038	171	119	143	145
20 to 21 years old	2,651	2,667	2,550	2,761	2,920	2,883	2,674	2,724	2,705	2,659	3,061 2,875	3,382 2,811	3,414	3,531
22 to 24 years old	1,979	2,068	2,185	2,144	2,306	2,527	2,570	2,482	2,411	2,324	2,475	2,377	2,985 2,435	3,045 2,617
25 to 29 years old	1,745	1,740	1,979	1,982	2,072	1,985	2,002	1,985	2,120	2,128	1,999	1,991	1,870	1,960
30 to 34 years old	1,223	1,283	1,305	1,322	1,415	1.456	1,345	1,414	1,236	1,196	1,109	1,195	1,144	1,265
35 years old and over	1,892	2,179	2,293	2,484	2,656	2,665	2,747	2,750	2,747	2,791	2,814	2,632	2,800	2,749
Men, total	5,932	6,002	6,190	6.284	6,502	6,524	6,427	6,372	6,343	6,353	6,396	6,369	6,491	6,722
14 to 17 years old	127	58	77	87	50	89	54	62	61	92	56	45	71	63
18 to 19 years old	1,427	1,343	1,433	1,421	1,299	1,305	1,288	1,302	1,338	1,354	1,414	1,535	1,540	1,583
20 to 21 years old	1,318	1,332	1,261	1,368	1,387	1,342	1,284	1,264	1,282	1,228	1,374	1,374	1,390	1,382
22 to 24 years old	995	1,130	1,084	1,107	1,232	1,272	1,344	1,238	1,153	1,177	1,200	1,127	1,091	1,293
25 to 29 years old	920	844	993	940	1,049	955	903	936	962	991	972	908	875	862
30 to 34 years old	520	588	562	537	614	627	584	601	561	477	443	463	515	527
35 years old and over	625	707	782	824	870	933	970	969	986	1,033	938	917	1,008	1,012
Women, total	6,835	7,053	7,349	7,535	7,857	7,963	7,877	7,907	7,919	8,015	8,106	8,138	8,301	8,591
14 to 17 years old	136	121	108	90	76	97	73	75	87	139	115	74	72	82
18 to 19 years old	1,585	1,596	1,608	1,529	1,565	1,479	1,552	1,485	1,557	1,684	1,647	1,847	1,873	1,948
20 to 21 years old	1,333	1,336	1,290	1,392	1,533	1,541	1,391	1,461	1,424	1,430	1,501	1,437	1,595	1,663
22 to 24 years old	984	937	1,101	1,037	1,074	1,255	1,226	1,243	1,258	1,147	1,275	1,250	1,344	1,324
25 to 29 years old	825	896	986	1,043	1,022	1,030	1,098	1,049	1,159	1,137	1,027	1,083	995	1,099
30 to 34 years old	703	695	743	784	800	828	761	812	675	719	666	732	629	738
35 years old and over	1,268	1,472	1,511	1,659	1,786	1,732	1,777	1,781	1,760	1,758	1,877	1,715	1,793	1,736
Full-time, total	7,231	7,437	7,661	7,821	8,115	8,161	8,128	8,138	8,129	8,303	8,438	8,563	8,786	9,010
14 to 17 years old	146	150	154	144	117	179	92	118	123	166	123	93	129	125
18 to 19 years old	2,568	2,528	2,671	2,548	2,466	2,382	2,370	2,321	2,387	2,553	2,534	2,794	2,847	2,932
20 to 21 years old	2,060	2,108	2,064	2,151	2,342	2,267	2,148	2,178	2,109	2,117	2,275	2,271	2,361	2,401
22 to 24 years old	1,185	1,243	1,300	1,350	1,467	1,594	1,612	1,551	1,517	1,598	1,606	1,564	1,662	1,653
25 to 29 years old	650	670	667	770	830	731	839	869	908	911	897	890	854	878
30 to 34 years old	278	350	332	387	382	409	424	440	430	383	377	367	338	422
35 years old and over	344	389	474	471	513	598	643	660	653	575	626	584	596	599
Men, full-time	3,611	3,662	3,740	3,808	3,929	3,926	3,891	3,855	3,807	3,851	3,890	3,934	4,026	4,111
14 to 17 years old	70	51	60	71	41	86	37	51	54	72	48	39	63	51
18 to 19 years old	1,228	1,171	1,289	1,230	1,141	1,130	1,079	1,081	1,091	1,126	1,154	1,240	1,271	1,250
20 to 21 years old	1,039	1,032	1,017	1,055	1,103	1,084	1,003	1,029	999	969	1,074	1,129	1,124	1,106
22 to 24 years old	649	723	696	742	817	854	896	811	789	858	770	777	788	839
25 to 29 years old	353	383	366	401	465	378	443	457	454	444	475	424	417	415
30 to 34 years old	139	158	151	156	174	174	180	193	183	143	160	141	147	195
35 years old and over	132	145	162	152	187	220	253	232	238	240	210	184	215	256
Women, full-time	3,620	3,775	3,921	4,013	4,186	4,235	4,237	4,283	4,321	4,452	4,548	4,630	4,761	4,899
14 to 17 years old	76	99	93	73	76	93	55	67	69	95	75	54	66	74
18 to 19 years old	1,341	1,357	1,383	1,318	1,325	1,253	1,291	1,240	1,296	1,426	1,380	1,555	1,576	1,682
20 to 21 years old	1,021	1,076	1,047	1,096	1,239	1,183	1,145	1,149	1,111	1,148	1,201	1,142	1,236	1,296
22 to 24 years old	536	520	604	608	650	739	716	740	729	740	836	787	874	814
25 to 29 years old	296	287	301	369	364	353	396	412	455	467	422	466	437	463
30 to 34 years old	139	192	182	231	208	235	244	247	247	240	217	226	190	227
35 years old and over	211	244	311	319	325	377	390	428	415	336	416	400	381	343
Part-time, total	5,536	5,618	5,878	5,998	6,244	6,325	6,177	6,141	6,133	6,065	6,064	5,944	6,005	6,303
14 to 17 years old	117	29	32	32	9	7	35	19	25	65	48	26	14	20
18 to 19 years old	444	412	370	402	399	402	470	466	507	485	526	588	566	599
20 to 21 years old 22 to 24 years old	591	559	487	610	578	616	526	546	596	542	600	540	624	644
-	794	825	885	794	840	933	958	930	894	727	869	813	772	964
25 to 29 years old 30 to 34 years old	1,096	1,070	1,312	1,213	1,242	1,254	1,163	1,116	1,212	1,217	1,101	1,101	1,016	1,083
35 years old and over	945	933	973	935	1,033	1,046	921	973	805	813	732	828	807	843
Men, part-time	1,549	1,790	1,819	2,012	2,143	2,068	2,104	2,091	2,093	2,216	2,188	2,048	2,205	2,150
14 to 17 years old	2,321	2,340	2,450	2,476	2,572	2,597	2,537	2,517	2,535	2,502	2,506	2,436	2,465	2,611
18 to 19 years old	57	7	17	16	9	4	17	11	7	20	9	5	8	11
20 to 21 years old	199 279	172	144	191	158	176	210	220	246	228	260	296	270	333
		300	244	313	285	258	281	235	283	260	300	245	266	276
22 to 24 years old 25 to 29 years old	346 567	408	388	365	415	417	448	427	365	319	430	350	302	454
30 to 34 years old	567	461	627	539	584	577	460	479	508	547	497	485	458	447
35 years old and over	381	431	411	381	440	453	404	408	378	334	283	322	368	332
Women, part-time	492	561	619	672	682	713	717	737	748	793	728	733	792	757
	3,214	3,278	3,428	3,521	3,671	3,728	3,640	3,624	3,598	3,563	3,559	3,508	3,540	3,692
14 to 17 years old	61	22	15	17	0	3	18	8	18	45	39	21	6	9
18 to 19 years old	244	240	226	211	241	226	261	245	261	257	267	292	297	266
20 to 21 years old	312	260	243	297	294	358	245	311	313	282	300	295	359	368
22 to 24 years old	448	417	497	429	425	516	510	504	529	407	439	463	470	510
25 to 29 years old	528	609	685	674	658	677	702	637	704	670	605	617	558	636
30 to 34 years old	564 1,056	503 1,229	562	554	593	593	517	565	427	479	449	506	439	511
35 years old and over			1,200	1,340	1,461	1,355	1,386	1,354	1,345	1,423				



Table 11.—Total enrollment in all degree-granting institutions, by sex, age, and attendance status, with middle alternative projections: Fall 1987 to fall 2012—Continued

						(III tillotti						
Sex, age, and attendance status	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Men and women, total	15,442	15,608	15,756	15,947	16,135	16,321	16,503	16,738	16,978	17,185	17,418	17,673
14 to 17 years old	162	178	187	194	202	210	220	223	224	222	223	225
18 to 19 years old	3,511	3,552	3,575	3,670	3,710	3,764	3,847	3,974	4,075	4,088	4,066	4,043
20 to 21 years old	3,118	3,161	3,203	3,189	3,234	3,304	3,330	3,372	3,445	3,561	3,661	3,702
22 to 24 years old	2,578	2,605	2,634	2,679	2,703	2,704	2,727	2,751	2,786	2,819	2,884	2,999
25 to 29 years old	1,925	1,923	1,948	1,998	2,062	2,128	2,183	2,232	2,264	2,288	2,326	2,368
30 to 34 years old	1,280	1,287	1,289	1,283	1,275	1,258	1,265	1,287	1,320	1,361	1,409	1,460
35 years old and over	2,868	2,902	2,920	2,934	2,948	2,953	2,931	2,899	2,864	2,846	2,849	2,877 7, 542
Men, total	6,772	6,817	6,860	6,919	6,985	7,052	7,124	7,216	7 ,309 109	7 ,380 108	7,460 107	107
14 to 17 years old	77	87	94 1,603	97 1,639	101 1,654	104 1,673	109 1,707	110 1,760	1,801	1,801	1,787	1,773
18 to 19 years old	1,594	1,592 1,472	1,603	1,480	1,498	1,529	1,539	1,554	1,584	1,634	1,674	1,686
20 to 21 years old	1,444 1,256	1,268	1,470	1,480	1,307	1,306	1,317	1,326	1,340	1,352	1,379	1,428
22 to 24 years old 25 to 29 years old	865	875	890	915	946	977	1,002	1,024	1,037	1,045	1,059	1,074
30 to 34 years old	523	521	517	512	507	499	501	509	521	536	553	570
35 years old and over	1,013	1,002	990	980	972	964	950	933	916	905	901	904
Women, total	8,670	8,791	8,896	9,027	9,150	9,269	9,380	9,522	9,669	9,805	9,958	10,131
14 to 17 years old	85	90	94	97	101	106	111	114	115	114	116	118
18 to 19 years old	1,917	1,960	1,972	2,031	2,056	2,091	2,140	2,214	2,274	2,288	2,279	2,270
20 to 21 years old	1,674	1,689	1,714	1,708	1,735	1,775	1,791	1,818	1,860	1,927	1,987	2,016
22 to 24 years old	1,323	1,338	1,356	1,382	1,396	1,398	1,411	1,425	1,446	1,467	1,505	1,570
25 to 29 years old	1,060	1,048	1,058	1,083	1,117	1,152	1,181	1,209	1,227	1,243	1,267	1,294
30 to 34 years old	757	766	772	771	768	759	764	778	799	825	856	889
35 years old and over	1,855	1,900	1,930	1,955	1,976	1,989	1,982	1,966	1,948	1,941	1,948	1,973
Full-time, total	9,141	9,281	9,358	9,481	9,615	9,761	9,904	10,089	10,276	10,422	10,580	10,749
14 to 17 years old	134	149	157	164	171	178	187	190	191	189	190	192
18 to 19 years old	2,925	2,987	3,016	3,109	3,155	3,211	3,289	3,403	3,494	3,508	3,494	3,482 3,032
20 to 21 years old	2,494	2,547	2,589	2,583	2,627	2,688	2,713	2,749 1,798	2,810 1,820	2,906 1,841	2,992 1,887	1,970
22 to 24 years old	1,675	1,705	1,721	1,750	1,767	1,768 900	1,783 921	940	952	961	980	1,005
25 to 29 years old	850 414	837 411	835 406	848 402	873 399	394	395	401	411	423	440	459
30 to 34 years old	649	645	633	626	624	623	616	607	598	593	597	609
35 years old and over	4,220	4,258	4,278	4,313	4,361	4,416	4,472	4,544	4,615	4,663	4,717	4,772
Men, full-time 14 to 17 years old	61	71	77	81	84	87	91	92	91	90	89	89
18 to 19 years old	1,304	1,313	1,328	1,362	1,380	1,401	1,433	1,480	1,516	1,517	1,507	1,498
20 to 21 years old	1,171	1,197	1,211	1,202	1,218	1,243	1,251	1,263	1,287	1,326	1,360	1,371
22 to 24 years old	851	865	869	880	886	885	892	898	906	913	932	968
25 to 29 years old	411	410	410	416	429	442	452	460	465	467	474	483
30 to 34 years old	182	176	171	167	165	162	162	164	167	171	177	183
35 years old and over	240	226	213	204	199	196	191	186	182	178	177	179
Women, full-time	4,922	5,023	5,079	5,168	5,254	5,345	5,432	5,546	5,661	5,759	5,863	5,977
14 to 17 years old	73	77	80	83	87	91	96	98	99	99	100	103
18 to 19 years old	1,621	1,675	1,688	1,747	1,774	1,810	1,856	1,923	1,978	1,991	1,987	1,984
20 to 21 years old	1,323	1,350	1,378	1,380	1,409	1,445	1,462	1,486	1,523	1,579	1,632	1,661
22 to 24 years old	824	840	853	870	881	882	891	900	914	928 494	955 506	1,002 522
25 to 29 years old	439	428	426	432	445	458	469	480 237	487 244	252	263	276
30 to 34 years old	233	235	235	235	234	232 427	233 425	421	417	415	419	430
35 years old and over	409	419	420	421	425 6 ,5 19	6,561	6,600	6,649	6,702	6,763	6,838	6,924
Part-time, total	6,300	6,327	6 ,398 30	6,46 5 30	31	32	33	34	33	33	33	33
14 to 17 years old	28 586	29 565	559	560	555	553	558	571	581	580	571	560
18 to 19 years old 20 to 21 years old	624	614	614	606	607	615	617	623	635	655	670	670
22 to 24 years old	903	901	912	929	936	937	944	952	966	978	997	1,028
25 to 29 years old	1,075	1,086	1,113	1,150	1,189	1,229	1,262	1,292	1,312	1,327	1,346	1,364
30 to 34 years old	866	876	883	881	876	864	870	886	909	938	970	1,001
35 years old and over	2,219	2,257	2,287	2,309	2,324	2,330	2,315	2,292	2,266	2,253	2,252	2,268
Men, part-time	2,552	2,559	2,582	2,606	2,624	2,637	2,652	2,672	2,694	2,717	2,743	2,771
14 to 17 years old	17	16	16	17	17	17	18	18	18	18	18	17
18 to 19 years old	289	280	275	276	273	272	274	280	285	284	280	275
20 to 21 years old	273	274	279	278	281	286	288	291	297	307	314	314
22 to 24 years old	405	403	409	417	420	421	424	428	434	439	447	460
25 to 29 years old	455	465	481	499	517	535	550	563	572	578	585	591 397
30 to 34 years old	341	345	346	345	342	337	339	345	354	365	376	387
35 years old and over	773	776	777	775	773	769	759	747	734	727	723	725 4.154
Women, part-time	3,748	3,768	3,816	3,859	3,896	3,924	3,948	3,977	4,008	4,046	4,095 15	4,1 5 4 15
14 to 17 years old	11	13	13	14	14	15	15	15	15	15	15 292	286
18 to 19 years old	296	285	284	284	282	281	284	291	296 338	296 348	355	356
20 to 21 years old	351	340	336	328	326	330	329 530	332 524	532	539	550	568
22 to 24 years old	498	498	504	512	516 672	516 694	520 712	729	740	749	761	772
25 to 29 years old	621	621	633 536	651 537	672 5 34	527	531	541	555	573	593	613
30 to 34 years old	524	531	1,510	1,533	1,551	1,562	1,557	1,545	1,531	1,526	1,528	1,543
35 years old and over	1,446	1,481	1,310	1,333	1,551	1,302	1 00,00	.,575	1,001	-,020	.,020	

NOTE: Detail may not sum to totals due to rounding. Some data have been revised from previously published figures.

Data by age are based on the distribution by age from the Bureau of the Census. Mean absolute percentage errors of selected education statistics can be found in table A2.

Data for 1999 were imputed using alternative procedures. (For more details, see appendix E of Projections of Education Statistics to 2011.)

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Fall Enrollment in Colleges and Universities" surveys; Integrated Postsecondary Education Data System (IPEDS) surveys; Enrollment in Degree-Granting Institutions Model; and U.S. Department of Commerce, Bureau of the Census, Current Population Reports, "Social and Economic Characteristics of Students," various years. (This table was prepared May 2002.)



Table 12.—Total enrollment in all degree-granting institutions, by sex, age, and attendance status, with low alternative projections: Fall 1992, 1997, 2000, 2007, and 2012

			i unousands)		
Sex, age, and attendance status	1992	1997	2000	2007	2012
Men and women, total	14,486	14,502	15,312	16,008	17,142
14 to 17 years old	186	171	145	213	218
18 to 19 years old	2,784	3,061	3,531	3,732	3,921
20 to 21 years old 22 to 24 years old	2,883	2,875	3,045	3,230	3,591
25 to 29 years old	2,527 1,985	2,475 1,999	2,617	2,646	2,909
30 to 34 years old	1,456	1,109	1,960 1,265	2,117	2,297
35 years old and over	2,665	2,814	2,749	1,227 2,843	1,416 2,791
Men, total	6,524	6,396	6,722	6,910	7,316
14 to 17 years old	89	56	63	105	104
18 to 19 years old	1,305	1,414	1,583	1,656	1,720
20 to 21 years old	1,342	1,374	1,382	1,492	1,635
22 to 24 years old	1,272	1,200	1,293	1,277	1,385
25 to 29 years old	955	972	862	972	1,042
30 to 34 years old	627	443	527	486	553
35 years old and over	933	938	1,012	921	877
Women, total	7,963	8,106	8,591	9,098	9,826
14 to 17 years old	97	115	82	108	114
18 to 19 years old 20 to 21 years old	1,479	1,647	1,948	2,076	2,202
22 to 24 years old	1,541 1,255	1,501	1,663	1,738	1,956
25 to 29 years old	1,030	1,275 1,027	1,324	1,369	1,523
30 to 34 years old	1,030 828	666	1,099 738	1,145 741	1,255
35 years old and over	1,732	1,877	1,736	1,922	863 1,914
Full-time, total	8,161	8,438	9,010	9,607	10,427
14 to 17 years old	179	123	125	181	186
18 to 19 years old	2,382	2,534	2,932	3,190	3,378
20 to 21 years old	2,267	2,275	2,401	2,631	2,941
22 to 24 years old	1,594	1,606	1,653	1,730	1,911
25 to 29 years old	731	897	878	893	975
30 to 34 years old	409	377	422	384	445
35 years old and over	598	626	599	597	591
Men, full-time	3,926	3,890	4,111	4,337	4,630
14 to 17 years old	86	48	51	88	87
18 to 19 years old	1,130	1,154	1,250	1,390	1,453
20 to 21 years old 22 to 24 years old	1,084	1,074	1,106	1,213	1,330
25 to 29 years old	854	770	839	866	939
30 to 34 years old	378 174 •	475 160	415	438	468
35 years old and over	220	210	195 256	157 185	178
Women, full-time	4,235	4,548	4,899	5,269	174 5,798
14 to 17 years old	93	75	74	93	100
18 to 19 years old	1,253	1,380	1,682	1,800	1,924
20 to 21 years old	1,183	1,201	1,296	1,418	1,611
22 to 24 years old	739	836	814	864	972
25 to 29 years old	353	422	463	455	506
30 to 34 years old	235	217	227	226	268
35 years old and over	377	416	343	412	417
Part-time, total	6,325	6,064	6,303	6,402	6,718
14 to 17 years old	7	48	20	32	32
18 to 19 years old	402	526	599	541	544
20 to 21 years old	616	600	644	599	650
22 to 24 years old 25 to 29 years old	933 1,254	869	964	916	998
30 to 34 years old	1,046	1,101	1,083	1,224	1,323
35 years old and over	2,068	732 2,188	843	844	971
Men, part-time	2,508	2,188 2,506	2,150 2,6 11	2,246 2,572	2,200
14 to 17 years old	4	9	11	17	2,687
18 to 19 years old	176	260	333	266	17 266
20 to 21 years.old	258	300	276	279	305
22 to 24 years old	417	430	454	412	446
25 to 29 years old	577	497	447	534	574
30 to 34 years old	453	283	332	329	376
35 years old and over	713	728	757	736	704
Women, part-time	3,728	3,559	3,692	3,830	4,029
14 to 17 years old	3	39	9	15	15
18 to 19 years old	226	267	266	276	277
20 to 21 years old	358	300	368	320	345
22 to 24 years old	516	439	510	504	551
25 to 29 years old	677	605	636	690	749
30 to 34 years old	593	449	511	515	595
35 years old and over	1,355	1,460	1,393	1,510	1,497

NOTE: Some data have been revised from previously published figures. Data for 2007 and 2012 are projected. Data by age are based on the distribution

by age from the Bureau of the Census. (For more details, see appendix E of Projections of Education Statistics to 2011.)

Detail may not sum to totals due to rounding. Mean absolute percentage errors of selected education statistics can be found in table A2.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Fall Enrollment in Colleges and Universities" surveys; Integrated

Postsecondary Education Data System (IPEDS) surveys; Enrollment in Degree-Granting Institutions Model; and U.S. Department of Commerce, Bureau of the Census, Current Population Reports, "Social and Economic Characteristics of Students," various years. (This table was prepared May 2002.)



Table 13.—Total enrollment in all degree-granting institutions, by sex, age, and attendance status, with high alternative projections: Fall 1992, 1997, 2000, 2007, and 2012

			i unousanus)		
Sex, age, and attendance status	1992	1997	2000	2007	2012
Men and women, total	14,486	14,502	15,312	16,999	18,203
14 to 17 years old	186	171	145	227	231
18 to 19 years old	2,784	3,061	3,531	3,963	4,164
20 to 21 years old	2,883	2,875	3,045	3,430	3,813
22 to 24 years old	2,527	2,475	2,617	2,809	3,089
25 to 29 years old	1,985	1,999	1,960	2,248	2,439
30 to 34 years old	1,456	1,109	1,265	1,303	1,503
35 years old and over	2,665	2,814	2,749	3,019	2,964
Men, total	6,524	6,396	6,722	7,339	7,769
14 to 17 years old	89	56	63	112 1,758	110 1,826
18 to 19 years old	1,305	1,414	1,583		•
20 to 21 years old	1,342	1,374	1,382	1,585	1,736
22 to 24 years old	1,272 955	1,200 972	1,293 862	1,356 1,032	1,471 1,106
25 to 29 years old 30 to 34 years old	627	443	527	516	587
35 years old and over	933	938	1,012	978	932
Women, total	7,963	8,106	8,591	9,661	10,434
14 to 17 years old	97	115	82	115	121
18 to 19 years old	1,479	1,647	1,948	2,204	2,338
20 to 21 years old	1,541	1,501	1,663	1,845	2,077
22 to 24 years old	1,255	1,275	1,324	1,453	1,618
25 to 29 years old	1,030	1,027	1,099	1,216	1,333
30 to 34 years old	828	666	738	787	916
35 years old and over	1,732	1,877	1,736	2,041	2,032
Full-time, total	8,161	8,438	9,010	10,201	11,071
14 to 17 years old	179	123	125	192	198
18 to 19 years old	2,382	2,534	2,932	3,388	3,587
20 to 21 years old	2,267	2,275	2,401	2,794	3,123
22 to 24 years old	1,594	1,606	1,653	1,837	2,029
25 to 29 years old	731	897	878	949	1,035
30 to 34 years old	409	377	422	407	473
35 years old and over	598	626	599	634	627
Men, full-time	3,926	3,890	4,111	4,606	4,915
14 to 17 years old	86	48	[*] 51	94	92
18 to 19 years old	1,130	1,154	1,250	1,476	1,543
20 to 21 years old	1,084	1,074	1,106	1,288	1,412
22 to 24 years old	854	770	839	919	997
25 to 29 years old	378	475	415	465	497
30 to 34 years old	174	160	195	167	189
35 years old and over	220	210	256	197	184
Women, full-time	4,235	4,548	4,899	5,595	6,156
14 to 17 years old	93	75	74	99	106
18 to 19 years old	1,253	1,380	1,682	1,911	2,043
20 to 21 years old	1,183	1,201	1,296	1,506	1,710
22 to 24 years old	739	836	814	918	1,032
25 to 29 years old	353	422	463	483	538
30 to 34 years old	235	217	227	240	284
35 years old and over	377	416	343	437	443
Part-time, total	6,325	6,064	6,303	6,798	7,132
14 to 17 years old	7	48	20	34	34
18 to 19 years old	402	526	599	575	577
20 to 21 years old	616	600	644	636	690
22 to 24 years old	933	869	964	972	1,059
25 to 29 years old	1,254	1,101	1,083	1,299	1,405
30 to 34 years old	1,046	732	843	896	1,031
35 years old and over	2,068	2,188	2,150	2,385	2,336
Men, part-time	2,597	2,506	2,611	2,731	2,854
14 to 17 years old	4	9	11	18	18
18 to 19 years old	176	260	333	282	283
20 to 21 years old	258	300	276	296	324
22 to 24 years old	417	430	454	437	474
25 to 29 years old	577	497	447	567	609
30 to 34 years old	453	283	332	349	399
35 years old and over	713	728	757	781	747
Women, part-time	3,728	3,559	3,692	4,066	4,278
14 to 17 years old	3	39	9	16	16
18 to 19 years old	226	267	266	293	2 94
20 to 21 years old	358	300	368	339	367
22 to 24 years old	516	439	510	535	585
25 to 29 years old	677	605	636	733	795
30 to 34 years old	593	449	511	547	632
35 years old and over	1,355	1,460	1,393	1,604	1,589

NOTE: Some data have been revised from previously published figures. Data for 2007 and 2012 are projected. Data by age are based on the distribution

by age from the Bureau of the Census. (For more details, see appendix E of Projections of Education Statistics to 2011.)

Detail may not sum to totals due to rounding. Mean absolute percentage errors of selected education statistics can be found in table A2.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Fall Enrollment in Colleges and Universities" surveys; Integrated Postsecondary Education Data System (IPEDS) surveys; Enrollment in Degree-Granting Institutions Model; and U.S. Department of Commerce, Bureau of the Census,

Current Population Reports, "Social and Economic Characteristics of Students," various years. (This table was prepared May 2002.)



Table 14.—Total enrollment in all degree-granting institutions, by sex and attendance status, with alternative projections: Fall 1987 to fall 2012

	Year	Total —	Men		Women	
		IUIAI —	Full-time	Part-time	Full-time	Part-time
1987		12,767	3,611	2,321	3,620	3,214
1988		13,055	3,662	2,340	3,775	3,278
1989		13,539	3,740	2,450	3,921	3,428
1990		13,819	3,808	2,476	4,013	3,521
1991		14,359	3,929	2,572	4,186	3,671
1992		14,486	3,926	2,597	4,235	3,728
1993		14,305	3,891	2,537	4,237	3,640
1994		14,279	3,855	2,517	4,283	3,624
1995		14,262	3,807	2,535	4,321	3,598
1996		14,368	3,851	2,502	4,452	3,563
1997		14,502	3,890	2,506	4,548	3,559
1998		14,507	3,934	2,436	4,630	3,508
1999		14,791	4,026	2,465	4,761	•
2000		•		•	· ·	3,540
2000		15,312	4,111	2,611	4,899	3,692
				ternative projection		
2001		15,442	4,220	2,552	4,922	3,748
2002		15,608	4,258	2,559	5,023	3,768
2003		15,756	4,278	2,582	5,079	3,816
2004	***************************************	15,947	4,313	2,606	5,168	3,859
2005		16,135	4,361	2,624	5,254	3,896
2006		16,321	4,416	2,637	5,345	3,924
2007		16,503	4,472	2,652	5,432	3,948
2008		16,738	4,544	2,672	5,546	3,977
2009		16,978	4,615	2,694	5,661	4,008
2010		17,185	4,663	2,717	5,759	4,046
2011		17,418	4,717	2,743	5,863	4,095
2012		17,673	4,772	2,771	5,977	4,154
			•	rnative projections		,,,,,,,,,
2001		15 200				2.711
2002		15,288	4,178	2,526	4,873	3,711
		15,468	4,220	2,536	4,978	3,734
2003		15,614	4,239	2,559	5,033	3,782
2004		15,772	4,266	2,577	5,111	3,817
2005		15,780	4,265	2,566	5,138	3,810
2006		15,831	4,284	2,558	5,185	3,806
2007		16,008	4,338	2,572	5,269	3,830
2008		16,236	4,408	2,592	5,380	3,858
2009		16,469	4,477	2,613	5,491	3,888
2010		16,669	4,523	2,635	5,586	3,925
2011		16,895	4,575	2,661	5,687	3,972
2012		17,143	4,629	2,688	5,798	4,029
			High alte	rnative projections	5	
2001		15,596	4,262	2,578	4,971	3,785
2002		15,748	4,296	2,582	5,068	3,802
2003		15,898	4,317	2,605	5,125	3,850
2004		16,122	4,360	2,635	5,225	3,901
2005		16,490	4,457	2,682	5,370	3,982
2005		16,811	4,548	2,716	5,505	4,042
2007		•	•	•	•	•
	***************************************	16,998	4,606	2,732	5,595	4,066
2008		17,240	4,680	2,752	5,712	4,096
2009	20.000	17,487	4,753	2,775	5,831	4,128
2010		17,701	4,803	2,799	5,932	4,167
2011		17,941	4,859	2,825	6,039	4,218
2012	***************************************	18,203	4,915	2,854	6,156	4,279

NOTE: Some data have been revised from previously published figures. Data for 1999 were imputed using alternative procedures.

(For more details, see appendix E of Projections of Education Statistics to 2011.) Detail may not sum to totals due to rounding.

Mean absolute percentage errors of selected education statistics can be found in table A2.



Table 15.—Total enrollment in public 4-year degree-granting institutions, by sex and attendance status, with alternative projections: Fall 1987 to fall 2012

	Year	Total —	Men		Women	1
	1 ear	I Otal	Full-time	Part-time	Full-time	Part-time
1987		5,432	1,882	723	1,854	973
988		5,546	1,910	722	1,932	982
1989		5,694	1,938	743	1,997	1,017
990		5,848	1,982	764	2,051	1,050
991		5,905	2,006	765	2,083	1,051
992		5,900	2,005	760	2,090	1,045
993		5,852	1,989	750	2,085	1,027
994		5,825	1,966	738	2,100	1,022
1995		5,815	1,951	720	2,134	1,009
1996		5,806	1,943	703	2,163	997
997		5,835	1,951	687	2,214	984
998		5,892	1,959	685	2,260	988
999		5,970	1,984	686	2,309	991
			•	683	2,363	1,001
2000	,	6,055	2,009		•	1,001
				lternative projection		
100	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	6,206	2,086	695	2,389	1,036
2002		6,287	2,105	699	2,438	1,045
2003		6,347	2,115	707	2,466	1,060
2004		6,426	2,131	714	2,508	1,073
2005		6,509	2,155	719	2,550	1,085
2006		6,592	2,181	723	2,595	1,093
2007		6,672	2,208	727	2,637	1,100
2008	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	6,773	2,242	732	2,691	1,108
2009		6,878	2,277	737	2,748	1,117
010		6,972	2,303	744	2,797	1,128
2011		7,078	2,333	752	2,850	1,143
2012		7,192	2,363	762	2,906	1,161
.012		,,,,,	•	ernative projections	•	*,*
	•	6 144				1.026
2001		6,144	2,065	688	2,365	1,026
2002		6,230	2,086	693	2,416	1,036
2003		6,290	2,096	701	2,444	1,050
2004		6,355	2,108	706	2,480	1,061
2005		6,366	2,108	703	2,494	1,061
2006		6,394	2,116	701	2,517	1,060
2007	.,,	6,472	2,142	705	2,558	1,067
2008	,	6,570	2,175	710	2,610	1,075
2009		6,672	2,209	715	2,666	1,083
2010		6,763	2,234	722	2,713	1,094
2011		6,866	2,263	729	2,765	1,109
2012	***************************************	6,976	2,292	739	2,819	1,126
		,	High alt	ernative projection	8	
2001		6,268	2,107	702	2,413	1,046
2002		6,344	2,124	705	2,460	1,054
		6,404	2,134	713	2,488	1,070
2003		•	2,154	722	2,536	1,085
2004		6,497	-	735	2,606	1,109
2005		6,652	2,202	733 745	2,673	1,126
2006		6,790	2,246		•	•
2007		6,872	2,274	749	2,716	1,133
2008		6,976	2,309	754	2,772	1,141
2009		7,084	2,345	759	2,830	1,151
2010		7,181	2,372	766	2,881	1,162
1105		7,290	2,403	775	2,936	1,177
2012		7,408	2,434	785	2,993	1,196

NOTE: Some data have been revised from previously published figures. Data for 1999 were imputed using alternative procedures. (For more details, see appendix E of *Projections of Education Statistics to 2011.*) Detail may not sum to totals due to rounding.

Mean absolute percentage errors of selected education statistics can be found in table A2.



Table 16.—Total enrollment in public 2-year degree-granting institutions, by sex and attendance status, with alternative projections: Fall 1987 to fall 2012

	Year	Total —	Men		Wome	n
	I cai	IVIAI	Full-time	Part-time	Full-time	Part-time
1987		4,541	744	1,225	787	1,785
988		4,615	746	1,231	822	1,817
989	***************************************	4,884	793	1,302	881	1,907
990		4,996	811	1,318	906	1,962
991		5,405	882	1,414	1,004	2,105
992	***************************************	5,485	878	1,431	1,037	2,138
1993	***************************************	5,337	859	1,386	1,030	2,063
1994		5,308	848	1,379	1,038	2,044
1995		5,278	819	1,417	1,022	2,020
1996		5,314	833	1,423	1.039	2,019
1997		5,361	842	1,444	1,049	2,026
1998		5,246	841	1,383	1,040	1,981
1999		5,339	868	1,404	1,063	2,005
2000		5,697	891	1,549	1,109	-
2000		3,077			-	2,148
				ternative projection	ns	
2001	••••••	5,657	916	1,477	1,118	2,146
2002	***************************************	5,699	926	1 ,477	1,143	2,153
2003		5,754	932	1,489	1,155	2,178
2004	***************************************	5,821	943	1,502	1,177	2,199
2005	***************************************	5,879	954	1,512	1,196	2,218
2006		5,936	966	1,519	1,217	2,233
2007		5,993	981	1,529	1,238	2,246
2008		6,069	999	1,541	1,265	2,263
2009		6,145	1,016	1,555	1,292	2,282
2010		6,207	1,024	1,568	1,312	2,303
2011		6,273	1,031	1,581	1,332	2,329
2012		6,345	1,038	1,595	1,355	2,358
		-,		rnative projections	•	2,000
2001		5,600	907	1,462	1,107	2 125
2002		•		-	-	2,125
2002		5,648	918	1,464	1,133	2,134
2003		5,702	924	1,476	1,145	2,158
		5,757	933	1,485	1,164	2,175
2005		5,750	933	1,479	1,170	2,169
2006		5,758	937	1,473	1,180	2,166
2007		5,813	952	1,483	1,201	2,179
2008		5,887	969	1,495	1,227	2,195
2009		5,961	986	1,508	1,253	2,214
2010	••••••	6,021	993	1,521	1,273	2,234
2011		6,085	1,000	1,534	1,292	2,259
2012		6,155	1,007	1,547	1,314	2,287
			High alte	ernative projections	3	
2001		5,714	925	1,492	1,129	2,167
2002	***************************************	5,750	934	1,490	1,153	2,172
2003	••••••••••••	5,806	940	1,502	1,165	2,198
2004		5,885	953	1,519	1,190	2,223
2005	***************************************	6,008	975	1,545	1,222	2,267
2005		6,114	973		1,222	2,300
2007		· ·		1,565	•	•
_		6,173	1,010	1,575	1,275	2,313
2008		6,251	1,029	1,587	1,303	2,331
2009		6,329	1,046	1,602	1,331	2,350
2010		6,393	1,055	1,615	1,351	2,372
2011		6,461	1,062	1,628	1,372	2,399
2012		6,535	1,069	1,643	1,396	2,429

NOTE: Some data have been revised from previously published figures. Data for 1999 were imputed using alternative procedures.

(For more details, see appendix E of Projections of Education Statistics to 2011.) Detail may not sum to totals due to rounding.

Mean absolute percentage errors of selected education statistics can be found in table A2.



Table 17.—Total enrollment in private 4-year degree-granting institutions, by sex and attendance status, with alternative projections: Fall 1987 to fall 2012

	Year	Total —	Men_	<u> </u>	Women	1
	Icai	Iotai —	Full-time	Part-time	Full-time	Part-time
1987		2,558	909	346	878	426
1988		2,634	933	347	918	436
1989		2,693	933	360	938	463
1990		2,730	944	361	959	466
1991		2,802	962	367	990	483
1992		2,864	970	375	1,016	503
1993		2,887	973	369	1,037	508
1994		2,924	978	367	1,063	516
1995		2,955	978	364	1,089	523
1996		2,998	991	356	1,133	518
1997		3,061	1,008	360	1,170	523
1998		3,126	1,038	353	1,220	514
1999		3,229	1,073	360	1,276	519
2000		3,308	1,107	365	1,315	522
		-,	· ·		•	
2001		2.210		ternative projection		540
2001	***************************************	3,319	1,115	364	1,300	540
2002	***************************************	3,360	1,124	367	1,325	544
2003		3,390	1,127	370	1,340	552
2004		3,430	1,135	374	1,362	560
2005		3,474	1,147	377	1,385	566
2006		3,517	1,160	3 7 8	1,408	570
2007		3,558	1,174	380	1,430	574
2008		3,610	1,191	382	1,459	578
2009		3,664	1,209	385	1,489	582
2010		3,713	1,222	388	1,515	588
2011		3,770	1,239	392	1,544	595
2012		3,835	1,256	397	1,577	605
			Low alte	rnative projections		
2001		3,286	1,104	360	1,287	535
2002		3,330	1,114	364	1,313	539
2003		3,359	1,117	367	1,328	547
2004		3,392	1,123	370	1,347	554
2005		3,398	1,122	369	1,355	554
2006		3,411	1,125	367	1,366	553
2007		3,451	1,139	369	1,387	557
2008	***************************************	3,502	1,155	371	1,415	561
2009		•	•		•	
	***************************************	3,554	1,173	373	1,444	565
2010		3,602	1,185	376	1,470	570
2011	***************************************	3,657	1,202	380	1,498	577
2012	***************************************	3,720	1,218	385	1,530	587
			High alte	rnative projections	;	
2001		3,352	1,126	368	1,313	545
2002		3,390	1,134	370	1,337	549
2003		3,421	1,137	373	1,352	557
2004		3,468	1,147	378	1,377	566
2005		3,550	1,172	385	1,415	578
2006		3,623	1,195	389	1,450	587
2007		3,665	1,209	391	1,473	591
2008		3,718	1,227	393	1,503	595
2009		3,774	1,245	397	1,534	599
2010	••••••••••••	3,774 3,824	1,243	400	1,560	606
2010 2011	***************************************	3,883	1,276	404	1,590	613
			•			
2012		3,950	1,294	409	1,624	623

NOTE: Some data have been revised from previously published figures. Data for 1999 were imputed using alternative procedures.

(For more details, see appendix E of Projections of Education Statistics to 2011.) Detail may not sum to totals due to rounding.

Mean absolute percentage errors of selected education statistics can be found in table A2.



Table 18.—Total enrollment in private 2-year degree-granting institutions, by sex and attendance status, with alternative projections: Fall 1987 to fall 2012

	Year	Total —	Men		Women	n
	1 ca:		Full-time	Part-time	Full-time	Part-time
987		235	76	28	102	29
988		260	73	40	103	44
989		267	76	45	105	41
990		244	71	34	96	43
991		247	80	27	109	32
992		238	74	30	91	43
993		229	70	31	85	43
994		221	64	33	82	43
1995		215	60	33	77	45
996		249	84	19	117	29
997		245	89	14	115	26
998		243	95	14	109	25
1999		253	101	15	112	25
2000		251	105	13	112	21
			Middle al	ternative projection	ns	
2001		259	102	16	115	26
2002		263	103	16	117	26
2003		265	104	16	119	27
2004		269	105	16	121	27
2005		273	106	16	123	27
2006		276	108	16	125	27
2007		280	109	17	127	27
2008		286	111	17	130	28
2009		291	113	17	133	28
2010		294	114	17	135	28
2011		297	115	17	137	28
2012		301	116	17	139	29
			Low alte	ernative projections		
2001		256	101	16	114	26
2002		261	102	16	116	26
2003		263	103	16	118	27
2003		266	103	16	120	27
2005		267	104	16	120	26
2006		268	105	16	121	26
2007		272	105	16	123	26
2007		277	108	16	126	20 27
2009		282	110	16	120	27
2010	***************************************	285	110	16	131	27
2010		288	111	16	133	27
2011	***************************************	268 292		16	135	28
2012		292	113			20
_			•	ernative projection:		
2001		262	103	16	116	26
2002		265	104	16	118	26
2003		267	105	16	120	27
2004		272	106	16	122	27
2005		279	108	16	126	28
2006		284	111	16	129	28
2007		288	112	18	131	28
2008		295	114	18	134	29
2009		300	116	18	137	29
2010		303	117	18	139	29
2011		306	118	18	141	29
2012		310	119	18	143	30

NOTE: Some data have been revised from previously published figures. Data for 1999 were imputed using alternative procedures.

(For more details, see appendix E of Projections of Education Statistics to 2011.) Detail may not sum to totals due to rounding.

Mean absolute percentage errors of selected education statistics can be found in table A2.



Table 19.—Total undergraduate enrollment in all degree-granting institutions, by sex, attendance status, and control of institution, with alternative projections: Fall 1987 to fall 2012

			Sex		Attendance status		Control	
	Year	Total —	Men	Women	Full-time	Part-time	Public	Private
1987		11,046	5,069	5,978	6,463	4,584	8,919	2,128
1988		11,317	5,137	6,179	6,642	4,674	9,103	2,213
1989		11,743	5,311	6,431	6,841	4,901	9,488	2,255
1990		11,959	5,380	6,579	6,976	4,983	9,710	2,250
1991		12,439	5,571	6,868	7,222	5,217	10,148	2,291
1992		12,537	5,582	6,954	7,243	5,293	10,216	2,320
1993		12,324	5,484	6,840	7,179	5,145	10,012	2,312
1994		12,263	5,423	6,840	7,169	5,094	9,945	2,317
1995		12,232	5,402	6,831	7,146	5,087	9,904	2,328
1996		12,327	5,421	6,907	7,299	5,029	9,935	2,392
1997		12,451	5,469	6,982	7,419	5,032	10,007	2,443
1998		12,437	5,446	6,991	7,539	4,898	9,950	2,487
1999		12,681	5,560	7,122	7,735	4,947	10,110	2,571
2000		13,155	5,778	7,377	7,923	5,232	10,539	2,616
2000	***************************************	15,155	5,	•	ternative proj	-	,	-,
2001		12 279	€ 010	7,459	8,060	5,217	10,629	2,648
2001		13,278	5,818	•	•	•	•	•
2002		13,432	5,864	7,567	8,201	5,230	10,744	2,688
2003		13,566	5,910	7,657	8,281	5,286	10,851	2,716
2004		13,736	5,965	7,772	8,398	5,339	10,985	2,752
2005		13,901	6,024	7,877	8,520	5,381	11,112	2,789
2006		14,072	6,088	7,984	8,657	5,415	11,243	2,829
2007		14,238	6,154	8,084	8,789	5,449	11,371	2,867
2008		14,457	6,241	8,217	8,965	5,493	11,539	2,918
2009		14,681	6,328	8,352	9,139	5,541	11,711	2,970
2010		14,868	6,394	8,474	9,273	5,595	11,855	3,013
2011		15,063	6,460	8,602	9,407	5,655	12,006	3,057
2012		15,263	6,523	8,740	9,539	5,724	12,162	3,101
2012		10,200	-,	-	rnative proje		,	-,
		12.146	6 760		7,979		10,523	2,622
2001		13,145	5,760	7,384	•	5,165	•	•
2002		13,311	5,811	7,499	8,127	5,183	10,647	2,664
2003		13,444	5,857	7,588	8,206	5,238	10,753	2,692
2004		13,585	5,899	7,687	8,306	5,280	10,864	2,722
2005		13,595	5,891	7,704	8,333	5,263	10,868	2,728
2006		13,650	5,905	7,744	8,397	5,253	10,906	2,744
2007		13,811	5,969	7,841	8,525	5,286	11,030	2,781
2008		14,023	6,054	7,970	8,696	5,328	11,193	2,830
2009		14,241	6,138	8,101	8,865	5,375	11,360	2,881
2010		14,422	6,202	8,220	8,995	5,427	11,499	2,923
2011		14,611	6,266	8,344	9,125	5,485	11,646	2,965
2012		14,805	6,327	8,478	9,253	5,552	11,797	3,008
		•		High alte	ernative proje	ctions		
2001		13,411	5,876	7,534	8,141	5,269	10,735	2,674
2002		13,553	5,917	7,635	8,275	5,277	10,841	2,712
2002		13,688	5,963	7,726	8,356	5,334	10,949	2,740
			-			5,398	11,106	2,782
2004		13,887	6,031	7,857	8,490	•	-	
2005		14,207	6,157	8,050	8,707	5,499	11,356	2,850
2006		14,494	6,271	8,224	8,917	5,577	11,580	2,914
2007		14,665	6,339	8,327	9,053	5,612	11,712	2,953
2008		14,891	6,428	8,464	9,234	5,658	11,885	3,006
2009		15,121	6,518	8,603	9,413	5,707	12,062	3,059
2010		15,314	6,586	8,728	9,551	5,763	12,211	3,103
2011		15,515	6,654	8,860	9,689	5,825	12,366	3,149
2012	***************************************	15,721	6,719	9,002	9,825	5,896	12,527	3,194

NOTE: Some data have been revised from previously published figures. Data for 1999 were imputed using alternative procedures. (For more details, see appendix E of *Projections of Education Statistics to 2011.*) Detail may not sum to totals due to rounding.

Mean absolute percentage errors of selected education statistics can be found in table A2.



Table 20.—Total graduate enrollment in all degree-granting institutions, by sex, attendance status, and control of institution, with alternative projections: Fall 1987 to fall 2012

	Year	Total	Sex	Sex		ce status	Control	
	1 Cai	Total —	Men	Women	Full-time	Part-time	Public	Private
1987		1,452	694	758	527	925	945	507
1988		1,472	697	775	553	919	949	522
1989		1,522	710	811	572	949	978	544
1990		1,586	737	849	599	987	1,023	563
1991		1,639	760	878	641	997	1,050	589
1992	••••••••••••••••	1,669	772	896	665	1,003	1,058	611
1993		1,688	771	918	689	1,000	1,064	625
1994		1,721	776	945	706	1,015	1,075	647
1995		1,732	768	964	717	1,015	1,074	659
1996		1,742	759	983	737	1,005	1,069	674
1997		1,753	758	996	753	1,001	1,070	683
1998		1,768	754	1,013	753	1,014	1,067	701
1999		1,807	766	1,041	781	1,026	1,077	730
2000		1,850	779	1,071	813	1,037	1,089	761
2000		-,555		-	ternative proj	•	1,007	
2001		1,852	782	1,070	801	1,051	1,109	743
2002		1,865	782	1,082	801	1,063	1,117	748
2002		1,878	782	1,095	799	1,078	1,125	753
2003		1,897	786	1,112	805	1,093	1,125	760
2005		1,917	790	1,126	813	1,103	1,149	768
2005		1,930	793	1,126	819	-	1,157	773
		•	793 797			1,110		778
2007		1,943		1,146	827	1,116	1,165	
2008		1,956	801	1,154	835	1,120	1,172	784
2009		1,969	805	1,164	844	1,125	1,180	789
2010		1,986	811	1,176	853	1,134	1,190	796
2011	***************************************	2,018	821	1,197	871	1,147	1,209	809
2012		2,063	836	1,226	898	1,164	1,236	827
					ernative proje	ctions		
2001		1,833	774	1,059	793	1,040	1,098	736
2002	***************************************	1,848	775	1,072	794	1,053	1,107	741
2003	***************************************	1,861	775	1,085	792	1,068	1,115	746
2004	***************************************	1,876	777	1,100	796	1,081	1,124	752
2005	***************************************	1,875	773	1,101	795	1,079	1,124	751
2006		1,872	769	1,102	794	1,077	1,122	750
2007	***************************************	1,885	773	1,112	802	1,083	1,130	755
2008		1,897	777	1,119	810	1,086	1,137	760
2009		1,910	781	1,129	819	1,091	1,145	765
2010		1,926	787	1,141	827	1,100	1,154	772
2011		1,957	796	1,161	845	1,113	1,173	785
2012		2,001	811	1,189	871	1,129	1,199	802
			,					
2001		1,871	790	1,081	ernative proje 809	1,062	1,120	750
2002		1,882	789	1,092	808	1,073	1,127	755
2002		1,895	789	1,105	806	1,088	1,135	760
2003		1,918	795	1,124	814	1,105	1,150	768
2004		•	807	1,124	831	1,127	1,174	785
		1,959	817	•		•	•	796
2006		1,988		1,170	844	1,143	1,192	
2007		2,001	821	1,180	852	1,149	1,200	801
2008		2,015	825	1,189	860	1,154	1,207	808
2009		2,028	829	1,199	869	1,159	1,215	813
2010		2,046	835	1,211	879	1,168	1,226	820
2011		2,079	846	1,233	897	1,181	1,245	833
2012		2,125	861	1,263	925	1,199	1,273	852

NOTE: Some data have been revised from previously published figures. Data for 1999 were imputed using alternative procedures. (For more details, see appendix E of *Projections of Education Statistics to 2011.*) Detail may not sum to totals due to rounding.

Mean absolute percentage errors of selected education statistics can be found in table A2.



Table 21.—Total first-professional enrollment in all degree-granting institutions, by sex, attendance status, and control of institution, with alternative projections: Fall 1987 to fall 2012

		Sex			Attendan	e status	Control					
	Year	Total —	Men	Women	Full-time	Part-time	Public	Private				
1987		268	170	98	242	26	110	158				
988		267	167	100	241	26	109	158				
989		274	169	105	248	26	113	162				
990		273	167	107	246	28	112	162				
991		281	170	111	252	29	111	169				
992		281	169	112	252	29	111	170				
993		292	173	120	260	33	114	179				
994		295	174	120	263	31	114	181				
995		298	174	123	266	31	115	183				
996		298	173	125	267	31	117	182				
997		298	169	129	267	31	118	180				
		302	168	134	271	31	121	182				
998		303	166	138	271	33	123	180				
1999		307	163	143	273	33	124	183				
2000		307	103		ternative proj							
		312	172	140	279	33	125	187				
2001		312	172	142	278	34	125	187				
2002			169	143	278	34	125	187				
2003		312		145	280	34	126	188				
2004		314	169		283	34	127	190				
2005		317	170	147		34	128	191				
2006		319	171	148	285	34	129	193				
2007		322	172	149	287		130	194				
2008		325	173	151	290	34		196				
2009		328	174	153	292	35	132	198				
2010		331	176	155	295	36	133					
2011		337	179	159	302	36	136	202				
2012		347	183	164	311	36	140	207				
	Low alternative projections											
2001		309	170	139	276	33	124	185				
2002		309	168	141	275	34	124	185				
2003		309	167	142	275	34	124	185				
2004		311	167	143	277	34	125	186				
2005		310	166	144	277	33	124	186				
2005		309	166	144	276	33	124	185				
		312	167	145	278	33	125	187				
2007		315	168	146	281	33	126	188				
2008		318	169	148	283	34	128	190				
2009		321	171	150	286	35	129	192				
2010			171	154	293	35	132	196				
2011		327 337	174	159	302	35	136	201				
2012		, ,	1,0		ernative proj	ections						
2001		315	174	141	282	33	126	189				
2001	***************************************	315	172	143	281	34	126	189				
2002		315	171	144	281	34	126	189				
2003		317	171	147	283	34	127	190				
2004			174	150	289	35	130	194				
2005		324	174	152	294	35	132	19				
2006		329		152	296	35	133	199				
2007	***************************************	332	177		290	35	134	200				
2008		335	178	156		36	136	200				
2009		338	179	158	301		136	204				
2010		341	181	160	304	37 37		200				
2011		347	184	164	311	37	140					
2012		357	188	169	320	37	144	213				

NOTE: Some data have been revised from previously published figures. Data for 1999 were imputed using alternative procedures. (For more details, see appendix E of *Projections of Education Statistics to 2011.*) Detail may not sum to totals due to rounding.

Mean absolute percentage errors of selected education statistics can be found in table A2.



Table 22.—Total full-time-equivalent enrollment in all degree-granting institutions, by control and type of institution with alternative projections: Fall 1987 to fall 2012

	Year	Total —	Public		Private					
		TOTAL -	4-year 2-year		4-year	2-year				
1987		9,229	4,396	2,542	2,091	201				
1988		9,466	4,505	2,591	2,160	209				
1989		9,783	4,620	2,752	2,195	216				
1990		9,985	4,740	2,818	2,230	197				
1991		10,363	4,796	3,067	2,287	212				
1992		10,438	4,798	3,114	2,332	194				
1993		10,353	4,765	3,046	2,356	184				
1994		10,349	4,749	3,035	2,390	176				
1995		10,337	4,757	2,994	2,418	168				
1996		10,482	4,768	3,028	2,467	219				
1997		10,615	4,813	3,056	2,525	220				
1998		10,699	4,870	3,011	2,599	220				
1999		10,944	4,944	3,075	2,694	229				
2000		11,267	5,026	3,241	2,769	231				
			Middle alternative projections							
2001		11,402	5,148	3,251	2,770	224				
2002		11,552	5,221	3,288	2,806	234 237				
2003	······································	11,654	5,268	3,318	•					
2004		11,802	5,333	3,362	2,829 2,863	239				
2005		11,956	5,406	3,402	2,901	243				
2006		12,116	5,482	3,443	2,941	246				
2007		12,273	5,555	3,486	•	250				
8002		12,476	5,648	3,542	2,979	254				
2009		12,682	5,745	3,596	3,027	259				
2010		12,850	5,827	3,635	3,077	264				
2011		13,035	5,919	3,676	3,120	267				
2012		13,235	6,016	3,719	3,170 3,226	270				
		-5,250			3,220	273				
2001		11,288	5.097	native projections	2 542					
2002		11,448	5,174	3,218	2,742	232				
2003		11,549	•	3,258	2,781	235				
004	-	11,672	5,221	3,288	2,804	237				
2005		11,693	5,274	3,325	2,832	240				
2006		11,753	5,287	3,327	2,837	241				
2007		11,735	5,318	3,340	2,853	243				
2008		12,102	5,388	3,381	2,890	246				
2009		•	5,479	3,436	2,936	251				
2010		12,302	5,573	3,488	2,985	256				
2011		12,465	5,652	3,526	3,026	259				
2012		12,644	5,741	3,566	3,075	262				
		12,838	5,836	3,607	3,129	265				
001			_	native projections						
:002		11,516	5,199	3,284	2,798	236				
003		11,656	5,268	3,318	2,831	239				
003		11,759	5,315	3,348	2,854	241				
005		11,932	5,392	3,399	2,894	246				
006		12,219	5,525	3,477	2,965	251				
006 007		12,479	5,646	3,546	3,029	258				
007 008		12,641	5,722	3,591	3,068	262				
		12,850	5,817	3,648	3,118	267				
009		13,062	5,917	3,704	3,169	272				
010		13,236	6,002	3,744	3,214	275				
011		13,426	6,097	3,786	3,265	278				
012		13,632	6,196	3,831	3,323	281				

NOTE: Some data have been revised from previously published figures. Data for 1999 were imputed using alternative procedures. (For more details, see appendix E of *Projections of Education Statistics to 2011.*) Detail may not sum to totals due to rounding.

Mean absolute percentage errors of selected education statistics can be found in table A2.



Chapter 3

High School Graduates

National

The number of high school graduates is projected to increase 9 percent from 1999–2000 to 2011–12. Increases in the number of graduates are expected for both public and private schools. The significant rise in the number of graduates reflects the increase in the 18-year-old population over the projection period, rather than changes in the graduation rates of 12th-graders (table 23 and figure 34).

However, projections of graduates could be impacted by changes in policies affecting graduation requirements. Projections of public high school graduates that have been produced over the past 19 years are less accurate than projections of public elementary and secondary enrollment, but more accurate than projections of earned degrees by level. For more information, see table A2, page 79.

Total High School Graduates

A high school graduate is defined as an individual who has received formal recognition from school authorities, by the granting of a diploma, for completing a prescribed course of studies at the secondary school level. This definition does not include other high school completers, high school equivalency recipients, or other diploma recipients.

The number of high school graduates from public and private schools increased from 2.6 million in 1986–87 to 2.8 million in 1987–88 (table 23 and figure 35). Then it decreased to 2.5 million in 1993–94, before increasing to 2.8 million in 1999–2000. The total number of high school graduates is projected to rise to 3.1 million by 2011–12, an increase of 9 percent from 1999–2000.

High School Graduates, by Control of Institution

The number of graduates of public high schools increased from 2.4 million in 1986–87 to 2.5 million in 1987–88 (table 23 and figure 36). Then it decreased to 2.2 million in 1993–94, before rising to 2.5 million in 19–2000. Over the projection period, public high

school graduates are projected to increase to 2.8 million by 2011-12, an increase of 9 percent from 1999-2000.

The number of graduates of private high schools is projected to increase from an estimated 277,000 in 1999-2000 to 294,000 by 2011-12, an increase of 6 percent.

State Level

The expected 9 percent national increase in public high school graduates plays out differently in each state, with 26 states showing increases ranging from 0.3 percent to 71 percent, and 25 states showing decreases ranging from 0.3 percent to 41 percent (table 25 and figure 38). Projected trends in the number of public high school graduates by state could be impacted by changes in policies affecting graduation requirements.

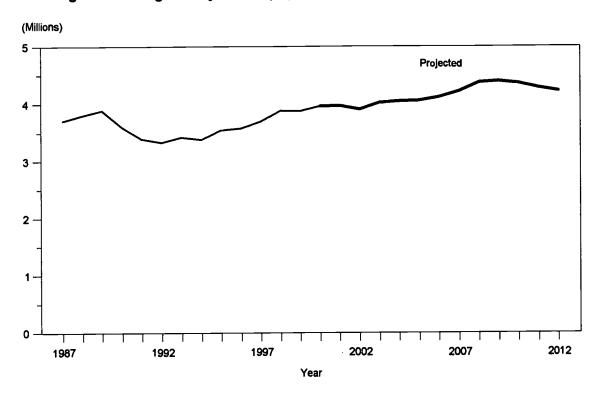
The number of public high school graduates in the Northeast is expected to increase 8 percent between 1999-2000 and 2011-12 (table 25 and figure 39). The largest increases are expected in Connecticut (16 percent) and New Jersey (26 percent). Decreases are projected for Maine (12 percent) and Vermont (16 percent).

The number of public high school graduates in the Midwest is expected to increase by 1 percent between 1999–2000 and 2011–12. The largest increase is expected in Illinois (17 percent). Large decreases are projected for North Dakota (29 percent) and South Dakota (26 percent).

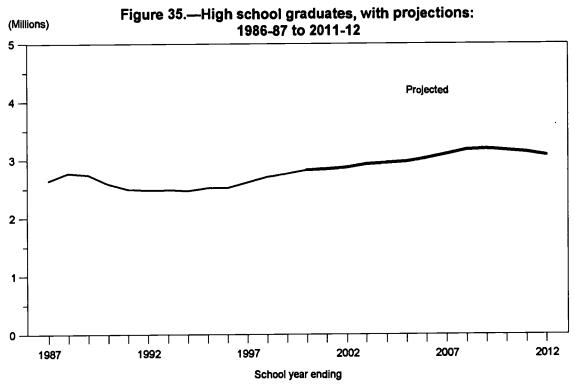
Between 1999–2000 and 2011–12, the number of public high school graduates in the South is projected to increase by 11 percent. The largest increases are expected in Florida (27 percent), North Carolina (22 percent), and Virginia (24 percent). The largest decrease is projected for the District of Columbia (41 percent).

The number of high school graduates in the West is expected to increase, rising by 17 percent. The largest increases are expected in Arizona (38 percent) and Nevada (71 percent). The largest decreases are projected for Montana (19 percent) and Wyoming (28 percent).

Figure 34.—Eighteen-year-old population, with projections: 1987 to 2012



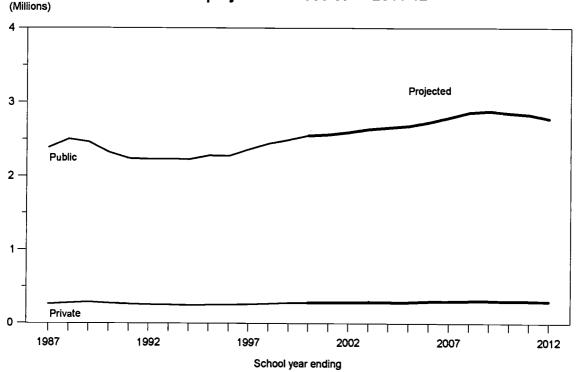
SOURCE: U.S. Department of Commerce, Bureau of the Census, Current Population Reports, Series P-25, Nos. 1092, 1095, and "National Population Estimates," December 2001, and "Annual Projections of the Total Resident Population: 1999 to 2100," January 2000.



SOURCE: U.S. Department of Education, National Center for Education Statistics, Statistics of Public Elementary and Secondary Schools; Common Core of Data surveys; Private School Universe Survey, 1995-96; Public and Private Elementary and Secondary Education Statistics, Early Estimates; and National Elementary and Secondary High School Graduates Model.

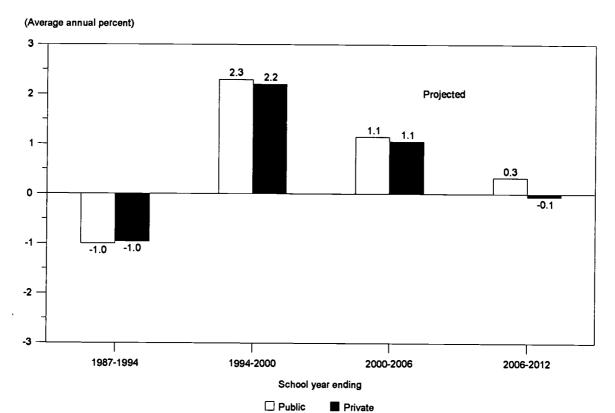


Figure 36.—High school graduates, by control of institution, with projections: 1986-87 to 2011-12



SOURCE: U.S. Department of Education, National Center for Education Statistics, Statistics of Public Elementary and Secondary Schools; Common Core of Data surveys; Private School Universe Survey, 1995-96; Public and Private Elementary and Secondary Education Statistics, Early Estimates; and National Elementary and Secondary High School Graduates Model.

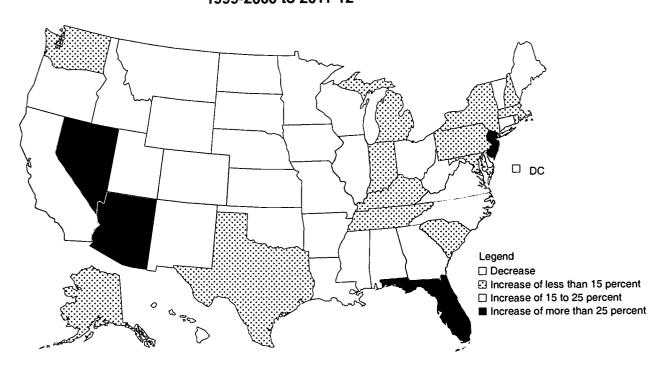
Figure 37.—Average annual rates of change for high school graduates: 1986-87 to 2011-12



SOURCE: U.S. Department of Education, National Center for Education Statistics, Statistics of Public Elementary and Secondary Schools; Common Core of Data surveys; Private School Universe Survey, 1995-96; Public and Private Elementary and Secondary Education Statistics, Early Estimates; and National Elementary and Secondary High School Graduates Model.

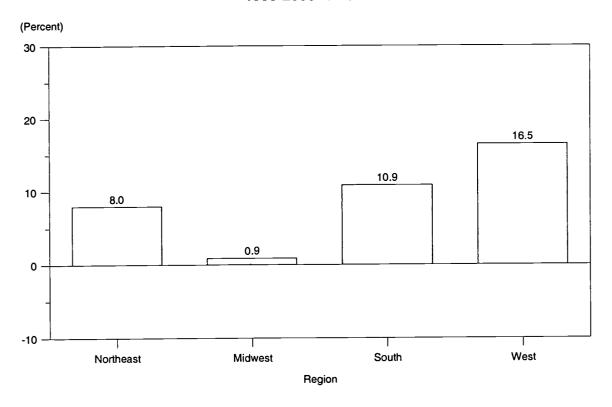


Figure 38.—Percent change in number of public high school graduates, by state: 1999-2000 to 2011-12



SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data surveys; and State Public High School Graduates Model.

Figure 39.—Percent change in number of public high school graduates, by region: 1999-2000 to 2011-12



SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data surveys; and State Public High School Graduates Model.



Table 23.—High school graduates, by control of institution, with projections: 1986-87 to 2011-12

(In thousands) School year Total Public Private 1987 2,643 2,383 260 1988 2,773 2,500 273 1989 2,744 2,459 285 1990 3 2.589 2,320 269 1991 2 2,493 2,235 258 1992 3 2,478 2,226 252 1993 ² 2.481 2,233 247 1994 ³ 2,464 2,221 243 2,519 2,274 246 2,518 2,273 245 2,612 2,358 254 1998 2,704 2,439 265 1999 2,762 2,489 273 2000 3 2,824 2,546 277 Projected 2001 2,839 2,561 279 2002 2,869 2,589 280 2003 2,920 2,636 285 2004 2,942 2,657 285 2005 2,965 2,677 288 2006 3,021 2,726 295 2007 3,092 2,791 300 2008 3,168 2,862 306 2009 3,181 2,877 304 2010 3,153 2,852 301

2011

2012

NOTE: Some data have been revised from previously published figures. Prior to 1989-90, numbers for private high school graduates were estimated by NCES.

Detail may not sum to totals due to rounding. Mean absolute percentage errors of selected education statistics can be found in table A2.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Statistics of Public Elementary and Secondary Schools: Common Core of Data surveys; 1985 Private School Survey; Private School Universe Survey, 1995–96; Public and Private Elementary and Secondary Education Statistics, Early Estimates; and National High School Graduates Model. (This table was prepared May 2002.)

3,127

3,074

2,829

2,780

298

294



¹ Private school numbers are interpolated based on data from the 1985 Private School Survey.

² Private school numbers are from the Private School Universe Survey.

³ Private school numbers are interpolated based on data from the Private School Universe Survey.

Table 24.—High school graduates in public schools, by region and state, with projections: 1993-94 to 2011-12

Region and state					Actual					Projected	
		1993-94	199495	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-01	2001-02	2002-03
United States		2,220,849	2,273,541	2,273,109	2,358,403	2,439,050	2,488,605	2,546,102	2,560,110	2,588,620	2,635,63
Northeast		408,755	413,417	417,843	432,280	430,450	437,156	453,754	459,270	464,950	480,10
Connecticut		26,330	26,445	26,319	27,029	27,885	28,284	31,562	31,260	32,960	33,73
Maine		11,384	11,501	11,795	12,019	12,171	11,988	12,148	12,410	12,590	12,78
Massachusetts		47,453	47,679	47,993	49,008	50,452	51,465	52,950	54,400	55,940	57,96
New Hampshire		9,933	10,145	10,094	10,487	10,843	11,251	11,829	12,110	12,250	12,90
New Jersey		66,125	67,403	67,704	70,028	65,106	67,410	74,423	75,940	79,510	83,97
New York		132,708	132,401	134,401	140,861	138,531	139,426	141,731	142,330	140,880	145,33
Pennsylvania		101,958	104,146	105,981	108,817	110,919	112,632	113,959	115,420	115,030	117,87
Rhode Island		7,450	7,826	7,689	7,850	8,074	8,179	8,477	8,560	8,860	8,85
Vermont		5,414	5,871	5,867	6,181	6,469	6,521	6,675	6,840	6,930	6,71
⁄lidwest		578,914	596,753	592,775	614,217	640,857	645,322	640,338	643,930	644,820	660,20
Illinois		102,126	105,164	104,626	110,170	114,611	112,556	111,835	111,610	116,110	119,52
Indiana		54,650	56,058	56,330	57,463	58,899	58,964	57,023	57,130	56,430	56,45
Iowa		30,247	31,268	31,689	32,986	34,189	34,378	33,926	33,970	33,680	34,28
Kansas		25,319	26,125	25,786	26,648	27,856	28,685	29,102	29,850	29,630	29,85
Michigan		83,385	84,628	85,530	89,695	92,732	94,125	89,986	91,390	92,370	95,58
Minnesota		47,514	49,354	50,481	48,193	54,628	56,964	57,372	58,500	58,230	60,02
Missouri		46,566	48,862	49,011	50,543	52,095	52,531	52,848	54,370	53,900	54,96
Nebraska		17,072	17,969	18,014	18,636	19,719	20,550	20,149	19,880	20,130	20,26
North Dakota		7,522	7,817	8,027	8,025	8,170	8,388	8,606	8,400	8,080	8,11
Ohio		107,700	109,418	102,098	107,422	111,211	111,112	111,668	110,530	108,420	111,54
South Dakota		8,442	8,355	8,532	9,247	9,140	8,757	9,278	8,810	8,830	8,57
Wisconsin		48,371	51,735	52,651	55,189	57,607	58,312	58,545	59,490	59,010	61,06
South		748,079	770,737	766,273	789,143	821,372	835,286	861,498	856,550	872,040	881,39
Alabama		34,447	36,268	35,043	35,611	38,089	36,244	37,819	36,660	36,860	36,52
Arkansas		24,990	24,636	25,094	25,146	26,855	26,896	27,335	26,760	26,700	26,62
Delaware		5,230	5,234	5,609	5,953	6,439	6,484	6,108	6,680	6,420	6,55
District of Columbia		3,207	2,974	2,696	2,853	2,777	2,675	2,695	2,670	2,470	2,24
Florida		88,032	89,827	89,242	95,082	98,498	102,386	106,708	109,020	113,560	108,72
Georgia		56,356	56,660	56,271	58,996	58,525	59,227	62,563	62,250	65,210	65,93
Kentucky		38,454	37,626	36,641	36,941	37,270	37,048	36,830	37,620	38,070	37,92
Louisiana		34,822	36,480	36,467	36,495	38,030	37,802	38,430	37,840	37,580	37,12
Maryland		39,091	41,387	41,785	42,856	44,555	46,214	47,849	48,410	49,710	51,12
Mississippi		23,379	23,837	23,032	23,388	24,502	24,198	24,232	23,970	23,600	23,25
North Carolina		57,738	59,540	57,014	57,886	59,292	60,081	62,140	63,330	64,610	66,11
Oklahoma		31,872	33,319	33,060	33,536	35,213	36,556	37,646	36,940	36,250	35,90
South Carolina		30,603	30,680	30,182	30,829	31,373	31,495	31,617	29,360	30,510	31,24
Tennessee		40,643	43,556	43,792	41,617	39,866	40,823	41,568	39,750	39,710	40,23
Texas		163,191	170,322	171,844	181,794	197,186	203,393	212,925	210,690	215,700	222,69
Virginia		56,140	58,260	58,166	60,587	62,738	63,875	65,596	66,310	67,940	72,05
West Virginia		19,884	20,131	20,335	19,573	20,164	19,889	19,437	18,290	17,140	17,18
West		485,101	492,634	496,218	522,763	546,371	567,866	590,512	600,360	606,810	613,94
Alaska		5,747	5,765	5,945	6,133	6,462	6,810	6,615	6,750	-	•
Arizona		31,799	30,989		34,082	36,361	35,728	38,304	39,550	40,020	42,00
California		253,083	255,200	259,071	269,071	282,897	299,221	309,866	320,100	323,720	330,79
Colorado		31,867	32,409	32,608	34,231	35,794	36,958	38,924	40,090	40,780	41,62
Hawaii		9,369	9,407	9,387	8,929	9,670	9,714	10,437	9,780	9,980	9,61
Idaho		13,281	14,198		15,407	15,523	15,716	16,170	15,740	15,750	15,48
Montana		9,601	10,134	-	10,322	10,656		10,903	10,700	10,710	10,75
Nevada		9,485	10,038		12,425	13,052		14,551	14,910	15,600	13,74
New Mexico		14,892	14,928		15,700	16,529		18,031	17,790	17,590	17,38
Oregon		26,338	26,713		27,720	27,754		30,151	30,030		
Utah		26,407	27,670		30,753	31,567		32,501	31,160		
Washington		47,235	49,294		51,609	53,679	-	57,597	57,520		
Wyoming		5,997	5,889			6,427		6,462	6,240		



Table 24.—High school graduates in public schools, by region and state, with projections: 1993–94 to 2011–12—Continued

Danis	on and state					Projected				
Regio	on and state	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12
United States		2,657,370	2,677,350	2,726,120	2,791,210	2,862,430	2,877,190	2,852,240	2,829,460	2,779,740
Northeast		483,780	492,800	506,300	518,510	527,190	524,130	516,390	508,250	490,070
Connecticut		34,590	35,600	36,510	37,310	38,100	37,570	37,570	37,250	36,670
Maine		12,900	12,520	12,650	12,570	12,440	12,120	11,920	11,390	10,750
Massachusetts	***************************************	58,580	60,140	61,570	64,020	65,030	64,090	63,300	62,170	56,690
New Hampshire		12,990	13,250	13,260	13,550	13,800	13,440	13,430	12,910	12,500
New Jersey		86,360	87,760	91,710	95,800	96,890	97,270	96,560	96,260	93,910
New York		142,200	145,890	150,700	153,110	156,200	155,460	152,610	149,880	146,370
Pennsylvania		120,470	121,930	124,060	125,870	128,460	128,170	125,410	123,320	118,320
Rhode Island		9,010	9,130	9,370	9,700	9,800	9,740	9,570	9,290	9,280
Vermont		6,680	6,580	6,470	6,580	6,470	6,270	6,020	5,780	5,580
Midwest		654,550	649,230	654,670	667,290	684,610	682,800	672,340	663,600	646,320
Illinois		120,030	120,110	122,820	125,630	131,470	133,290	130,430	131,750	130,660
Indiana	***************************************	55,360	55,220	57,290	59,290	60,320	60,950	60,160	59,680	58,220
Iowa	***************************************	33,770	32,430	32,800	33,450	34,260	34,000	33,600	32,910	31,790
Kansas	***************************************	29,470	28,910	28,820	28,770	29,310	28,850	28,630	27,980	27,530
Michigan	***************************************	93,940	94,680	94,580	97,440	102,040	100,140	97,690	96,150	93,580
Minnesota		59,480	58,290	59,170	59,420	60,440	58,870	58,290	57,320	55,830
Missouri	***************************************	54,570	53,990	54,350	55,350	56,330	57,080	57,620	55,010	52,610
Nebraska		19,850	19,290	19,140	19,270	19,850	19,300	18,960	18,620	18,240
North Dakota	***************************************	7,820	7,430	7,380	7,140	6,970	6,830	6,580	6,400	6,100
Ohio		111,150	110,070	110,950	113,080	114,880	115,450	113,430	112,290	108,220
South Dakota		8,390	8,130	7,860	7,870	7,790	7,520	7,460	7,230	6,870
Wisconsin		60,720	60,680	59,510	60,580	60,950	60,520	59,490	58,260	56,670
South		893,950	903,970	915,400	940,440	955,590	974,490	972,210	966,490	955,380
Alabama		35,590	36,090	36,080	36,840	37,890	37,720	37,140	36,950	35,500
Arkansas		26,300	25,770	26,010	26,840	27,470	27,450	27,050	26,070	25,780
Delaware		6,780	6,750	6,960	6,830	6,850	7,030	7,180	7,270	7,100
District of Columbia		2,120	1,800	1,740	2,070	2,050	2,050	1,850	1,780	1,600
Florida		124,300	121,660	126,430	130,430	132,360	135,090	135,170	134,490	135,580
Georgia		66,550	68,170	69,980	72,780	75,630	75,680	75,730	76,110	74,990
Kentucky		39,010	37,980	38,300	38,390	39,540	40,540	40,670	41,750	42,200
Louisiana	***************************************	31,140	38,460	35,350	35,360	31,410	37,320	35,200	34,520	33,320
Maryland		52,090	53,320	54,360	55,580	56,130	57,090	55,150	54,380	53,000
Mississippi	•••••	22,920	22,550	22,590	23,240	24,040	24,110	23,980	23,720	22,780
North Carolina	•••••	66,970	68,930	71,400	74,600	76,030	76,580	77,040	76,110	75,970
Oklahoma		35,780	35,070	34,730	35,050	35,400	35,410	35,300	34,140	32,800
South Carolina	***************************************	31,540	32,330	32,820	34,090	31,930	34,670	34,590	34,140	32,840
Tennessee	•••••	40,060	40,570	40,950	42,980	44,440	44,930	44,290	43,110	41,710
Texas		221,590	224,030	226,370	229,580	235,360	239,160	242,650	244,310	243,560
Virginia West Virginia		73,980 17,230	73,760 16,730	74,920 16,410	78,970 16,810	82,170 16,890	82,690 16,970	82,640 16,580	81,630 16,010	81,030 15,620
-				•	•	-			·	-
West		625,090	631,350	649,750	664,970	695,040	695,770	691,300	691,120	687,970
Alaska		7,160	7,090	7,230	7,310	7,430	7,330	7,370	6,780	6,700
Arizona		42,720	43,190	45,000	46,790	49,550	50,460	51,440	51,280	52,910
California	•••••••••••••••••••••••••••••••••••••••	333,960	343,080	356,120	364,900	384,850	384,660	378,840	384,380	382,500
Colorado		43,280	43,210	43,990	44,860	46,430	47,040	47,730	47,390	47,140
Hawaii		9,840	9,860	9,890	10,000	10,420	10,140	9,750	9,490	9,410
Idaho		15,080	15,370	15,820	15,820	16,390	16,220	16,260	16,120	15,810
Montana	•••••	10,550	10,260	10,110	9,960	10,080	9,770	9,720	9,170	8,810
Nevada		18,960	18,070	19,320	20,570	22,260	23,020	23,800	24,080	24,900
New Mexico		17,270	17,000	16,830	17,030	17,250	17,250	16,900	16,480	15,730
Oregon		30,530	30,200	30,550	31,490	31,860	31,920	31,360	30,340	30,050
Utah	***************************************	29,680	29,180	30,010	29,850	30,570	30,640	30,970	30,170	30,590
Washington		60,240	59,310	59,450	61,130	62,600	62,120	62,140	60,590	58,780
Wyoming	•••••	5,820	5,530	5,430	5,260	5,350	5,200	5,020	4,850	4,640

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data surveys and State Public High School Graduates Model. (This table was prepared May 2002.)



Table 25.—Percent change in number of public high school graduates, by region and state, with projections: 1993-94 to 2011-12

Region	and state	Actual		Projected	
Kegion	and state	1993-94 to 1999-2000	1999-2000 to 2006-07	2006-07 to 2011-12	1999-2000 to 2011-1
United States		14.6	7.1	2.0	9
74b4		11.0	11.6	3.3	8
Northeast		11.0	11.6	-3.2	
Connecticut		19.9	15.7	0.5	
Maine		6.7	4.1	-15.0	
Massachusetts		11.6	16.3	-7.9	
New Hampshire		19.1	12.1	-5.7	5
New Jersey		12.5	23.2	2.4	26
New York		6.8	6.3	-2.9	3
Pennsylvania		11.8	8.9	-4.6	3
Rhode Island		13.8	10.5	-1.0	9
Vermont		23.3	-3.1	-13.8	-16
lidwest		10.6	2.2	-1.3	0
			9.8	6.4	
Illinois		9.5			
Indiana		4.3	0.5	1.6	
Iowa		12.2	-3.3	-3.1	-6
Kansas		14.9	-1.0	-4.4	-5
Michigan		7.9	5.1	-1.1	4
Minnesota		20.7	3.1	-5.6	-2
Missouri		13.5	2.8	-3.2	-0
Nebraska		18.0	-5.0	-4.7	_9
North Dakota		14.4	-14.3	-17.4	-29
Ohio		3.7	-0.6	-2.5	
		9.9	-15.3	-12.6	
South Dakota				-4.8	-20
Wisconsin		21.0	1.6	-4 .8	-3
outh		15.2	6.3	4.4	
Alabama		9.8	-4.6	-1.6	
Arkansas		9.4	-4.8	-0.9	-5
Delaware	***************************************	16.8	14.0	1.9	16
District of Columbia		-16.0	-35.5	-8.0	-40
Florida	***************************************	21.2	18.5	7.2	27
Georgia		11.0	11.9	7.2	19
Kentucky		-4.2	4.0	10.2	
•		10.4	-8.0	-5.7	
Louisiana				-2.5	
Maryland	***************************************	22.4	13.6		
Mississippi		3.6	-6.8	0.9	
North Carolina		7.6	14.9	6.4	
Oklahoma		18.1	-7.7	-5.6	
South Carolina		3.3	3.8	0.1	3
Tennessee	***************************************	2.3	-1.5	1.8	(
Texas	.,	30.5	6.3	7.6	14
Virginia		16.8	14.2	8.2	2:
West Virginia		-2.2	-15.6	-4.8	-19
West viighna		2.2			
Vest		21.7	10.0	5.9	
Alaska		15.1	9.4	-7.3	
Arizona		20.5	17.5	17.6	
California		22.4	14.9	7.4	2.
Colorado	***************************************	22.1	13.0	7.2	2
Hawaii	***************************************	11.4	-5.2	-4.9	-
Idaho		21.8	-2.2	-0.1	-
Montana	***************************************	13.6	-7.3	-12.9	
		53,4	32.7	28.9	
Nevada	•••••			-6.5	
New Mexico	***************************************	21.1	-6.7		
Oregon		14.5	- 1.3	-1.6	
Utah		23.1	-7.7	1.9	
Washington		21.9	3.2	-1.1	
Wyoming		7.8	-15.9	-14.7	-28

NOTE: Calculations are based on unrounded numbers. Mean absolute percentage errors of selected education statistics can be found in table A2. SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data surveys and State Public High School Graduates Model. (This table was prepared May 2002.)



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Chapter 4

Earned Degrees Conferred

Historical growth in enrollment in degree-granting institutions has led to a substantial increase in the number of earned degrees conferred. Just as the unprecedented rise in female enrollment contributed to the increased number of college students, so too has it boosted the number of degrees conferred. Between 1986–87 and 1999–2000, the number of degrees awarded to women rose at all levels. In 1999–2000, women earned the majority of associate's, bachelor's, and master's degrees, 44 percent of doctor's degrees, and 45 percent of first-professional degrees. By 2011–12, the number of degrees awarded are expected to increase across all levels.

Projections of earned degrees by level and sex were based primarily on college-age populations and college enrollment by level and by attendance status. Factors that affect future levels of earned degrees, such as choice of degree and demand for occupations, were not included in the projection models. NCES projections of earned degrees by level that have been produced over the last 6 years are less accurate than projections of public elementary and secondary enrollment. For more information, see table A2, page 79.

Associate's Degrees

Between 1986–87 and 1999–2000, the number of associate's degrees increased from 436,304 to 564,933 (table 26 and figure 40). It is projected to increase to 669,000 by 2011–12, an increase of 18 percent from 1999–2000. The number of associate's degrees awarded to men decreased from 190,839 in 1986–87 to 186,316 in 1988–89, before rising to 224,721 in 1999–2000. This number is projected to increase to 238,000 by 2011–12. The number of associate's degrees awarded to women decreased from 245,465 in 1986–87 to 245,038 in 1987–88. Then it increased to 340,212 in 1999–2000, an increase of 39 percent from 1986–87. This number is projected to increase to 431,000 by 2011–12, an increase of 27 percent from 1999–2000.

Bachelor's Degrees

The number of bachelor's degrees increased from 991,264 in 1986-87 to 1,237,875 in 1999-2000, an increase of 25 percent (table 27 and figure 41). This number is expected to increase to 1,437,000 by 2011-12, an increase of 16 percent from 1999-2000. The number of bachelor's degrees awarded to men decreased from 480,782 in 1986-87 to 477,203 in 1987-88. It increased to 532,881 in 1992-93. Then this number decreased to 518,746 in 1998-99. In 1999-2000, this number increased to 530,367. This number is expected to increase to 587,000 by 2011-12, an increase of 11 percent from 1999-2000. The number of bachelor's degrees awarded to women increased from 510,482 in 1986-87 to 707,508 in 1999-2000, an increase of 39 percent. This number is expected to increase to 850,000 by 2011-12, an increase of 20 percent from 1999-2000.

Master's Degrees

The number of master's degrees increased from 289,349 in 1986–87 to 457,056 in 1999–2000, an increase of 58 percent (table 28 and figure 42). This number is expected to increase to 475,000 in 2000–01 and then decrease to 467,000 in 2003–04. Thereafter, it will increase to 501,000 in 2011–12. The number of master's degrees awarded to men increased from 141,269 in 1986–87 to 191,792 in 1999–2000. This number is projected to increase to 202,000 in 2000–01 and then decrease to 197,000 by 2005–06. This number is expected to increase to 204,000 by 2011–12. The number of master's degrees awarded to women increased from 148,080 in 1986–87 to 265,264 in 1999–2000. This number is expected to increase to 297,000 in 2011–12.

Doctor's Degrees

The number of doctor's degrees increased from 34,041 in 1986–87 to 46,010 in 1997–98. Then this number decreased to 44,077 in 1998–99, followed by an increase to 44,808 in 1999–2000 (table 29 and figure 43). This number is expected to decrease to 44,900 in 2001–02 and then increase to 46,800 in 2011–12. The number of doctor's degrees awarded to men increased



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from 22,061 in 1986–87 to 27,146 in 1996–97. Then this number decreased to 25,028 in 1999–2000. This number is expected to decrease to 24,800 in 2000–01 and then increase to 26,000 by 2011–12. The number of doctor's degrees awarded to women rose from 11,980 in 1986–87 to 19,780 in 1999–2000, an increase of 65 percent. The number of doctor's degrees awarded to women is projected to be 20,800 by 2011–12. The share of doctor's degrees awarded to women, which was 35 percent in 1986–87 and 44 percent in 1999–2000, is projected to remain at 44 percent in 2011–12.

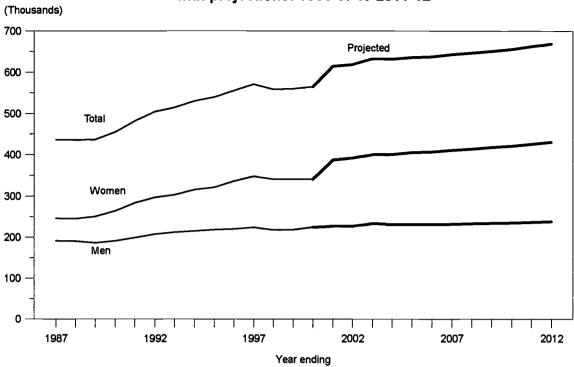
First-Professional Degrees

A first-professional degree is one that signifies both completion of the academic requirements for beginning practice in a given profession and a level of professional skill beyond that normally required for a bachelor's degree. This degree is based on a program requiring at least 2 academic years of work before entrance and a total of at least 6 years of work to complete the degree program, including both prior required college work and the professional program itself. These degrees include fields such as dentistry, medicine, pharmacy, law, and theological professions.

The number of first-professional degrees awarded decreased from 71,617 in 1986-87 to 70,735 in 1987-88. This number increased to 78,730 in 1996-97 and then decreased to 78,439 in 1998-99. Thereafter, it increased to 80,057 in 1999-2000 (table 30 and figure 44). This number is expected to increase to 86,400 by 2011-12. The number of first-professional degrees awarded to men decreased from 46,523 in 1986-87 to 43,846 in 1990-91. Then it increased to 45,153 in 1992-93 and then decreased to 44,239 in 1999-2000. This number is projected to decrease to 43,600 in 2006– 07 and then increase to 44,800 by 2011-12. The number of first-professional degrees awarded to women increased from 25,094 in 1986-87 to 35,818 in 1999-2000, an increase of 43 percent. This number is expected to increase to 41,600 by 2011-12, an increase of 16 percent from 1999-2000. The women's proportion of first-professional degrees rose from 35 percent in 1986-87 to 45 percent in 1999-2000. By 2011-12, this proportion is expected to rise to 48 percent.



Figure 40.—Associate's degrees, by sex of recipient, with projections: 1986-87 to 2011-12



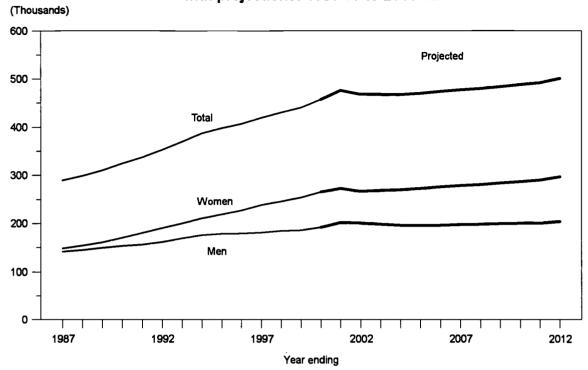
SOURCE: U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" survey; Integrated Postsecondary Education Data System (IPEDS), "Completions" survey; and Earned Degrees Conferred Model.

with projections: 1986-87 to 2011-12 (Thousands) 1,600 **Projected** 1,400 1,200 Total 1,000 800 Women 600 Men 400 200 0 1987 1992 1997 2002 2007 2012 Year ending

Figure 41.—Bachelor's degrees, by sex of recipient,



Figure 42.—Master's degrees, by sex of recipient, with projections: 1986-87 to 2011-12



SOURCE: U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" survey; Integrated Postsecondary Education Data System (IPEDS), "Completions" survey; and Earned Degrees Conferred Model.

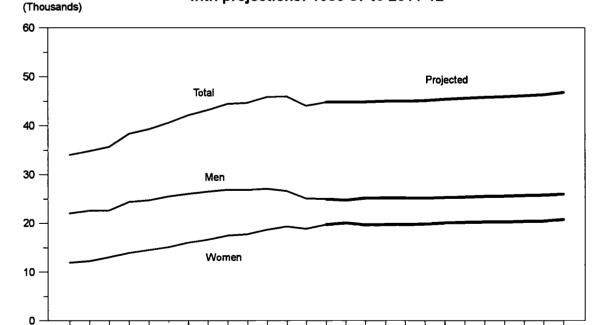


Figure 43.—Doctor's degrees, by sex of recipient, with projections: 1986-87 to 2011-12

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" survey; Integrated Postsecondary Education Data System (IPEDS), "Completions" survey; and Earned Degrees Conferred Model.

Year ending

1997



1987

1992

2002

2007

2012

Figure 44.—First-professional degrees, by sex of recipient, with projections: 1986-87 to 2011-12

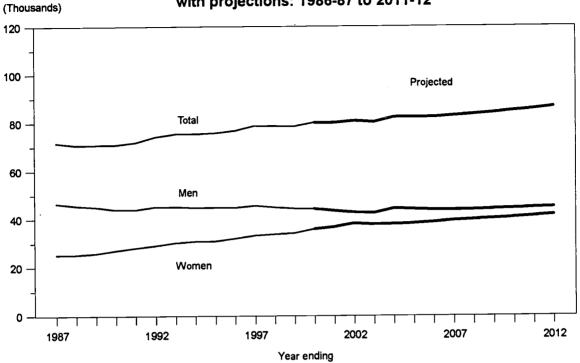




Table 26.—Associate's degrees, by sex of recipient, with projections: 1986-87 to 2011-12

	Year ending	Total	Men	Women
37		436,304	190,839	245,465
38		435,085	190,047	245,038
39		436,764	186,316	250,448
90		455,102	191,195	263,907
91		481,720	198,634	283,086
92		504,231	207,481	296,750
93		514,756	211,964	302,792
) 4		530,632	215,261	315,371
95		539,691	218,352	321,339
96		555,216	219,514	335,70
7		571,226	223,948	347,278
8		558,555	217,613	340,942
9		559,954	218,417	341,53
00		564,933	224,721	340,212
		•	rnative projections	340,212
)1		615,000	227,000	399 nor
12		619,000	227,000	388,000 392,000
)3		633,000	233,000	400,000
4		632,000	231,000	•
)5		637,000	·	401,000
6		638,000	231,000	406,000
7		643,000	231,000	407,000
8		647,000	232,000	411,000
•		652,000	233,000	414,000
)		•	234,000	418,000
1		656,000	235,000	421,000
2		662,000	236,000	426,000
-		669,000	238,000	431,000
1			native projections	
2		605,000	223,000	382,000
		599,000	220,000	379,000
} 		595,000	219,000	376,000
		596,000	218,000	378,000
5		596,000	216,000	380,000
6		597,000	216,000	381,000
7		602,000	217,000	385,000
3		606,000	218,000	388,000
•		610,000	219,000	391,000
)		614,000	220,000	394,000
		620,000	221,000	399,000
2		627,000	223,000	404,000
		High alter	native projections	
l		624,000	230,000	394,000
2		640,000	235,000	405,000
1		671,000	247,000	424,000
		668,000	244,000	424,000
5		677,000	245,000	432,000
,		679,000	246,000	433,000
,		684,000	247,000	437,000
3		689,000	248,000	441,000
)		694,000	249,000	445,000
)		698,000	250,000	448,000 448,000
		· · · · · · · · · · · · · · · · · · ·	•	•
ı		705,000	251,000	454,000

NOTE: Some data have been revised from previously published figures. Detail may not sum to totals due to rounding. Mean absolute percentage errors of



Table 27.—Bachelor's degrees, by sex of recipient, with projections: 1986-87 to 2011-12

	Year ending	Total	Men	Wom
37		991,264	480,782	510,4
38		994,829	477,203	517,6
39		1,018,755	483,346	535,4
10		1,051,344	491,696	559,6
1		1,094,538	504,045	590,4
2		1,136,553	520,811	615,7
2 3		1,165,178	532,881	632,2
) 4		1,169,275	532,422	636,8
		1,160,134	526,131	634,
		1,164,792	522,454	642,
5		1,172,879	520,515	652,
!		1,184,406	519,956	664,
В		1,200,303	518,746	681,
9		1,237,875	530,367	707,
0		• •	rnative projections	
			535,000	733.
l	***************************************	1,268,000	538,000	744,
?		1,282,000	543,000	758
i		1,301,000	•	769
١	***************************************	1,322,000	553,000	770
5		1,327,000	557,000	
5		1,343,000	559,000	784
7		1,353,000	562,000	791
3		1,368,000	566,000	802
•		1,382,000	570,000	812
)		1,397,000	574,000	823
ı		1,414,000	580,000	834
2		1,437,000	587,000	850
			native projections	726
ı		1,255,000	530,000	725
2		1,259,000	529,000	730
3		1,284,000	536,000	748
4		1,289,000	540,000	749
5		1,313,000	551,000	762
6		1,329,000	553,000	776
7		1,339,000	556,000	783
8		1,354,000	560,000	794
9		1,368,000	564,000	804
0		1,382,000	568,000	814
l		1,399,000	574,000	825
2		1,423,000	581,000	842
		High alter	native projections	
1		1,291,000	545,000	746
2		1,298,000	545,000	753
3		1,334,000	557,000	777
4		1,335,000	559,000	776
5		1,340,000	562,000	778
6		1,356,000	564,000	792
7		1,365,000	567,000	798
8		1,381,000	571,000	810
9		1,396,000	576,000	820
0		1,410,000	579,000	831
U I		1,428,000	586,000	842
	***************************************	1,437,000	587,000	850



Table 28.—Master's degrees, by sex of recipient, with projections: 1986-87 to 2011-12

100=	Year ending	Total	Men	Womer
1987		289,349	141,269	148,080
1988		299,317	145,163	154,154
1989		310,621	149,354	161,267
1990		324,301	153,653	170,648
1991		337,168	156,482	180,686
1992		352,838	161,842	190,996
1993		369,585	169,258	200,32
1994		387,070	176,085	210,985
1995		397,629	178,598	219,031
996		406,301	179,081	227,220
1997		419,401	180,947	•
998		430,164	184,375	238,454
999	***************************************	439,986	186,148	245,789
2000		457,056	•	253,838
		<u>.</u>	191,792	265,264
			ernative projections	
1000		475,000	202,000	273,000
002		468,000	201,000	267,000
003		468,000	199,000	269,000
004		467,000	197,000	270,000
005		470,000	197,000	273,000
:006		473,000	197,000	276,000
007		477,000	198,000	279,000
008		480,000	199,000	281,000
009		484,000	200,000	284,000
010		488,000	201,000	287,000
011		491,000	201,000	290,000
012		501,000	204,000	•
			native projections	297,000
100		471,000	200,000	271 000
002		451,000	194,000	271,000
003		455,000	194,000	257,000
004		457,000	•	261,000
005		460,000	193,000	264,000
006		463,000	193,000 193,000	267,000
007		467,000	•	270,000
800		470,000	194,000	273,000
009		473,000	195,000	275,000
010		477,000	195,000	278,000
110		•	196,000	281,000
012		481,000	197,000	284,000
		491,000	200,000	291,000
		High alter	native projections	
001		480,000	204,000	276,000
002		486,000	209,000	277,000
003		481,000	205,000	276,000
004	***************************************	477,000	201,000	276,000
005		480,000	201,000	279,000
006		483,000	201,000	282,000
07		487,000	202,000	285,000
800		490,000	203,000	287,000
009		494,000	204,000	290,000
10		498,000	205,000	
11		503,000	206,000	293,000
12		511,000	208,000	297,000



Table 29.—Doctor's degrees, by sex of recipient, with projections: 1986-87 to 2011-12

	Year ending	Total	Men	Wome
87		34,041	22,061	11,9
88		34,870	22,615	12,2
989		35,720	22,648	13,0
90		38,371	24,401	13,9
91		39,294	24,756	14,5
92	***************************************	40,659	25,557	15,10
93		42,132	26,073	16,0
94		43,185	26,552	16,6
95		44,446	26,916	17,5
	••••	44,652	26,841	17,8
96		45,876	27,146	18,7
97		46,010	26,664	19,3
98	······································	44,077	25,146	18,9
99		44,808	25,028	19,7
00		·	•	17,1
			rnative projections	
)[44,900	24,800	20,1
)2		44,900	25,200	19,7
)3		45,000	25,200	19,
4	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	45,000	25,200	19,
5		45,100	25,200	19,
6	••••	45,400	25,300	20,
		45,600	25,400	20,
7		45,800	25,500	20,
8	***************************************	45,900	25,600	20,
9		•	-	20,
0		46,100	25,700	20,
1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	46,300	25,800	
12		46,800	26,000	20,
			native projections	•••
10	***************************************	44,000	24,300	19,
12	***************************************	43,700	24,500	19,
)3		43,800	24,600	19,
14		43,500	24,400	19,
)5		43,500	24,300	19,
)6	***************************************	43,800	24,400	19,
77		44,000	24,500	19
)7)8		44,100	24,600	19
		44,200	24,700	19
9		44,400	24,800	19
0		44,700	25,000	19
1	······································	45,100	25,100	20
2	······································		•	,
			native projections	20.
1		45,700	25,200	
)2		46,100	25,800	20
)3	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	46,300	25,900	20,
)4		46,700	26,100	20
)5	***************************************	46,800	26,100	20
)6		46,900	26,100	20
77		47,100	26,200	20
)/)8		47,300	26,300	21
		47,500	26,500	21
)9	,	47,700	26,600	21
0	***************************************	•	26,700	21
П	***************************************	47,900	•	21
12	Some data have been revised from previously published figures. Detail may not	48,400	26,800	



Table 30.—First-professional degrees, by sex of recipient, with projections: 1986-87 to 2011-12

100-	Year ending	Total	Men	Women
1987	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	71,617	46,523	25,094
988	***************************************	70,735	45,484	25,251
989		70,856	45,046	25,810
990	,	70,988	43,961	27,027
991		71,948	43,846	28,102
992	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	74,146	45,071	29,075
993		75,387	45,153	30,234
994	,	75,418	44,707	30,711
995		75,800	44,853	30,947
996		76,734	44,748	31,986
997		78,730	45,564	33,166
998	,	78,598	44,911	33,687
999		78,439	44,339	34,100
000		80,057	44,239	35,818
		Middle alte	rnative projections	,
100	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	001,08	43,400	36,700
002		80,800	42,700	38,100
003		80,200	42,500	37,700
004		82,200	44,300	37,900 37,900
005		82,200	44,000	38,200
006		82,300	43,600	
007		82,900	43,600	38,700
800		83,500	43,800	39,300
009		84,100	44,000	39,700
010		84,900	44,300	40,100
110		85,700	44,600	40,600
012		86,400	44,800	41,100
		· _	native projections	41,600
100		78,800	• •	24.00
002		79,600	42,700	36,100
003		79,100	42,100	37,500
004		79,100	41,900	37,200
005		•	42,600	36,500
006		79,000	42,300	36,700
007		79,100	41,900	37,200
008		79,800 80,400	42,000	37,800
009		80,400 81,000	42,200	38,200
010		81,600	42,400	38,600
110		•	42,600	39,000
012		82,400	42,900	39,500
	***************************************	83,100	43,100	40,000
100			native projections	
002		81,300	44,100	37,200
003		82,000	43,300	38,700
004		81,300	43,100	38,200
005		85,300	45,900	39,400
106		85,200	45,600	39,600
107		85,500	45,300	40,200
008		86,100	45,300	40,800
106 109		86,700	45,500	41,200
109 110		87,400	45,700	41,700
		88,100	46,000	42,100
110		88,900	46,300	42,600
012	Some data have been revised from previously published figures. Detail may not s	89,700	46,500	43,200



Technical Appendixes



Appendix A

Projection Methodology

The general procedure for *Projections* was to express the variable to be projected as a percent of a "base" variable. These percents were then projected and applied to projections of the "base" variable. For example, the number of 18-year-old college students was expressed as a percent of the 18-year-old population for each year from 1972 through 2000. This enrollment rate was then projected through the year 2012 and applied to projections of the 18-year-old population from the U.S. Census Bureau.

Enrollment projections are based primarily on population projections. Projections of high school graduates and earned degrees conferred are based primarily on enrollment projections.

Exponential smoothing and multiple linear regression are the two major projection techniques used in this publication. Single exponential smoothing is used when the historical data have a basically horizontal pattern. On the other hand, double exponential smoothing is used when the time series is expected to change linearly with time. In general, exponential smoothing places more weight on recent observations than on earlier ones. The weights for observations decrease exponentially as one moves further into the past. As a result, the older data have less influence on these projections. The rate at which the weights of older observations decrease is determined by the smoothing constant selected.

$$P = \alpha X_{t} + \alpha (1 - \alpha) X_{t-1} + \alpha (1 - \alpha)^{2} X_{t-2} + \alpha (1 - \alpha)^{3} X_{t-3} + \dots$$

Where:

P = projected value

 α = smoothing constant (0 < α < 1)

 X_t = observation for time t

This equation illustrates that the projection is a weighted average based on exponentially decreasing weights. For a high smoothing constant, weights for a low

smoothing constant, decreases are more moderate. Projections of enrollments and public high school graduates are based on a smoothing constant of $\alpha = 0.4$.

The farther apart the observations are spaced in time, the more likely it is that there are changes in the underlying social, political, and economic structure. Since the observations are on an annual basis, major shifts in the underlying process are more likely in the time span of just a few observations than if the observations were available on a monthly or weekly basis. As a result, the underlying process for annual models tends to be less stable from one observation to the next. Another reason for using high smoothing constants for some time series is that most of the observations are fairly accurate, because most observations are population values rather than sample estimates. Therefore, large shifts tend to indicate actual changes in the process rather than noise in the data.

Multiple linear regression is also used in making projections of college enrollment and earned degrees conferred. This technique is used when it is believed that a strong relationship exists between the variable being projected (the dependent variable) and independent variables. However, this technique is used only when accurate data and reliable projections of the independent variables are available.

The functional form primarily used is the multiplicative model. When used with two independent variables, this model takes the form:

$$Y = aX_1^{b_1}X_2^{b_2}$$

This equation can easily be transformed into the linear form by taking the natural log (ln) of both sides of the equation:

$$\ln Y = \ln(a) + b_1 \ln X_1 + b_2 \ln X_2$$

The multiplicative model has a number of advantages. Research has found that it is a reasonable way to represent human behavior. Constant elasticities are assumed, which means that a 1 percent change in lnX will lead to a given percent change in lnY. This

percent change is equal to b₁. And the multiplicative model lends itself easily to "a priori" analysis because the researcher does not have to worry about units of measurement when specifying relationships. In fact, the multiplicative model is considered the standard in economic analyses. For additional information, see Long-Range Forecasting: From Crystal Ball to Computer by J. Scott Armstrong (John Wiley and Sons, 1978, pp. 180–181).

Caveats

Because projections are subject to errors from many sources, alternative projections are shown for some statistical series. These alternatives are not statistical confidence intervals, but instead represent outcomes based on alternative growth patterns. Alternative projections were developed for college enrollment and earned degrees conferred.

Assumptions

All projections are based on underlying assumptions, and these assumptions determine projection results to a large extent. It is important that users of projections understand the assumptions to determine the acceptability of projected time series for their purposes. Descriptions of the primary assumptions upon which the projections of time series are based are presented in table A1, page 78.

For most projections, low, middle, and high alternatives are shown. These alternatives reveal the level of uncertainty involved in making projections, and they also point out the sensitivity of projections to the assumptions on which they are based.

Many of the projections in this publication are demographically based on U.S. Census Bureau middle series projections of the population by age, but are not adjusted for the 1990 net undercount of 4 to 5 million. The population projections developed by the U.S. Census Bureau reflect the incorporation of the 2000 estimates which are still based on the 1990 census and the middle series assumptions for the fertility rate, internal migration, net immigration, and a declining mortality rate. For a discussion on the intercensal population estimates, see appendix C, page 112.

These middle series population projections are based on the estimated population as of January 1, 1999 and the estimated base population as of April 1, 1990. The future fertility rate assumption, which determines projections of the number of births, is one key assumption in making population projections.

The middle series population projections assume an iltimate complete cohort fertility rate of 2.13 births per woman by the year 2012. Yearly net migration is assumed to decrease from 980,425 in 2001 to 719,797 by 2010. Then it is projected to increase to 728,293 in 2012. This assumption plays a major role in determining population projections for the age groups enrolled in nursery school, kindergarten, and elementary grades. The effects of the fertility rate assumption are more pronounced toward the end of the projection period, while the immigration assumptions affect all years.

For enrollments in secondary grades and college, the fertility assumption is of no consequence, since all students enrolled at these levels were already born when the population projections were made. For projections of enrollments in elementary schools, only middle series population projections were considered. Projections of high school graduates are based on projections of the percent of grade 12 enrollment that are high school graduates. Projections of associate's, bachelor's, master's, doctor's, and first-professional degrees are based on projections of college-age populations and college enrollment, by sex, attendance status and level enrolled by student, and by type of institution. Projections of college enrollment are also based on disposable income per capita and unemployment rates. Projections of disposable income per capita and unemployment rates were obtained from the company DRI•WEFA. Inc. Therefore, many additional assumptions made in projecting disposable income per capita and unemployment rates apply to projections based on projections of these variables.

Limitations of Projections

Projections of time series usually differ from the final reported data due to errors from many sources. This is because of the inherent nature of the statistical universe from which the basic data are obtained and the properties of projection methodologies, which depend on the validity of many assumptions. Therefore, alternative projections are shown for most statistical series to denote the uncertainty involved in making projections. These alternatives are not statistical confidence limits, but instead represent judgments made by the authors as to reasonable upper and lower bounds. The mean absolute percentage error is one way to express the forecast accuracy of past projections. This measure expresses the average value of the absolute value of errors in percentage terms. For example, the mean absolute percentage errors of public school enrollment in grades K-12 for lead times of 1, 2, 5, and 10 years were 0.2, 0.5, 1.1, and 2.7 percent, respectively. On



the other hand, mean absolute percentage errors for doctor's degrees for lead times of 1, 2, and 5 years were 2.6, 3.4, and 3.0 percent respectively. For more information on mean absolute percentage errors, see table A2, page 79.



Table A1.—Summary of forecast assumptions to 2012

Variables	Middle alternative	Low alternative	High alternative
Demographic		-	
Assumptions			
Population	Projections are consistent with the Census Bureau middle series estimates, which assume a fertility rate of 2.13 births per woman by the year 2012, a yearly net migration ranging from 719,800 to 980,400 per year, and a further reduction in the mortality rate.	Same as middle alternative	Same as middle alternative
18- to 24-year-old population	Average annual growth rate of 1.2%	Same as middle alternative	Same as middle alternative
25- to 29-year-old population	Average annual growth rate of 1.0%	Same as middle alternative	Same as middle alternative
30- to 34-year-old population	Average annual growth rate of 0.1%	Same as middle alternative	Same as middle alternative
35- to 44-year-old population	Average annual decline of 1.2%	Same as middle alternative	Same as middle alternative
Undergraduate enrollment	Average annual growth rate of 1.2%	Average annual growth rate of 1.0%	Average annual growth rate of 1.5%
Graduate enrollment	Average annual growth rate of 0.9%	Average annual growth rate of 0.7%	Average annual growth rate of 1.2%
First-professional enrollment	Average annual growth rate of 1.0%	Average annual growth rate of 0.8%	Average annual growth rate of 1.3%
Economic			
Assumptions			
Disposable income per capita in constant dollars	Annual percent changes range be- tween 0.5% and 4.5% with an annual compound growth rate of 2.5%	Same as middle alternative	Same as middle alternative
Inflation rate	Inflation rate ranges between 1.6% and 3.2%	Inflation rate ranges between 1.6% and 3.5%	Inflation rate ranges between 2.0% and 2.6%
Unemployment Rate (Men)			
Age 18 to 19	Remains between 12.6% and 16.8%	Same as middle alternative	Same as middle alternative
Age 20 to 24	Remains between 8.2% and 11.6%	Same as middle alternative	Same as middle alternative
Age 25 and over	Remains between 3.5% and 5.1%	Same as middle alternative	Same as middle alternative
Unemployment Rate (Women)			
Age 18 to 19	Remains between 10.8% and 13.0%	Same as middle alternative	Same as middle alternative
Age 20 to 24	Remains between 8.0% and 9.6%	Same as middle alternative	Same as middle alternative
Age 25 and over	Remains between 3.0% and 4.0%	Same as middle alternative	Same as middle alternative

SOURCE: U.S. Department of Commerce, Bureau of the Census, Current Population Reports, Series P-25, Nos. 1092, 1095, and "National Population Estimates," December 2001, and "Annual Projections of the Total Resident Population: 1999 to 2100," January 2000; and DRI*WEFA, "U.S. Quarterly Model" (This table was prepared May 2002.)



Table A2.—Mean absolute percentage errors (MAPEs) by lead time for selected statistics in all public elementary and secondary schools and degree-granting institutions

Statistics				L	ead time	(years)				
	1	2	3	4	5	6	7	8	9	10
			Publi	c elemen	tary and	l seconda	ary schoo	als ¹		
K-12 enrollment	 0.2	0.5	0.7	0.9	1.1	1.4	1.7	2.0	2.4	2.7
K-8 enrollment	 0.3	0.5	0.8	0.9	1.2	1.6	2.1	2.8	3.4	4.0
9-12 enrollment	 0.6	0.8	0.9	1.2	1.4	1.7	2.2	2.5	2.7	2.9
High school graduates	 0.7	0.9	1.4	1.9	1.6	1.8	2.5	3.5	3.8	4.2
				Degree-	granting	g institut	ions ²			
Total enrollment	 1.2	0.8	1.0	1.2	2.4	3.1	1.2	(3)	(3)	(3)
Men	 1.3	1.5	2.0	2.7	3.7	4.8	3.9	(3)	(3)	(3)
Women	 1.7	1.8	1.4	0.8	1.4	1.8	0.9	(3)	(3)	(3)
4-year	 1.1	1.4	1.3	1.9	2.6	2.8	2.4	(3)	(3)	(3)
2-year	 2.2	1.9	1.9	2.1	2.9	3.6	0.8	(3)	(3)	(3)
Associate's degrees	 2.4	3.3	3.9	5.8	6.6	6.1	4.8	(3)	(3)	(3)
Bachelor's degrees	 1.0	2.1	2.2	3.5	4.1	4.4	3.8	(3)	(3)	(3)
Master's degrees	 1.2	4.3	6.8	6.7	5.5	5.2	6.4	(3)	(3)	(3)
Doctor's degrees	 2.6	3.4	1.9	3.3	3.0	1.6	3.1	(3)	(3)	(3)
First-professional degrees	 1.6	1.6	1.8	4.5	5.9	7.3	5.1	(3)	(3)	(3)

MAPEs for enrollments and high school graduates were calculated using the last 19 editions of the Projections of Education Statistics.

NOTE: Mean absolute percentage error is the average value of the absolute values of errors expressed in percentage terms. Calculations were made using unrounded numbers. Some data have been revised from previously published numbers.

SOURCES: U.S. Department of Education, National Center for Education Statistics, *Projections of Education Statistics*, various issues. (This table was prepared May 2002.)



¹MAPEs for enrollments and carned degrees were calculated using the last 6 editions of the *Projections of Education Statistes*.

³Not all actual values were available to calculate a MAPE of this lead time.

A1. Enrollment

National

Enrollment projections were based on projected enrollment rates, by age and sex, which were applied to population projections by age and sex developed by the U.S. Census Bureau. These enrollment rates were projected by taking into account the most recent trends, as well as the effects of economic conditions and demographic changes on a person's decision to enter college. The enrollment rates were then used in the Education Forecasting Model (EDMOD), which consists of age-specific rates by sex and by enrollment levels.

Education Forecasting Model

The first stage of EDMOD is an age-specific enrollment model in which enrollment rates are projected and applied to age-specific population projections. This stage, which is used separately for each sex, includes the following categories: (1) full-time college enrollment and (2) part-time college enrollment. Within an enrollment category, where applicable, enrollment rates were projected by individual ages 16 through 24 and for the age groups 25 to 29, 30 to 34, and 35 years and over.

Enrollments by age and age groups from the U.S. Census Bureau were adjusted to NCES totals to compute enrollment rates for 1972 through 2000. Different assumptions were made to produce low, middle, and high alternative projections of enrollment rates to the year 2012.

College Full-Time and Part-Time Enrollment

Projections of full-time and part-time college enrollments were considered only for ages 16 and over. College enrollment is negligible for earlier ages. Full-time and part-time enrollments are modeled as two distinct groups. Three alternative projections were made using various economic assumptions. Table A1.1 shows enrollment rates for 2000 and middle alternative projected enrollment rates for 2007 and 2012. Table A1.2 shows the equations used to project enrollment rates for men by attendance status. Table A1.3 shows the equations used to project enrollment rates for women by attendance status.



Enrollment in Public Elementary and Secondary Schools, by Grade Group and Organizational Level

The second stage of EDMOD projects public enrollment in elementary and secondary schools by grade group and by organizational level. Public enrollments by age were based on enrollment rate projections for nursery and kindergarten, grade 1, elementary ungraded and special, secondary ungraded and special, and postgraduate enrollment. Grade progression rate projections were used for grades 2 through 12. Table A1.4 shows the public school enrollment rates and table A1.5 shows the public school grade progression rates for 2000 and projections for 2007 and 2012. The projected rates in tables A1.4 and A1.5 were used to compute the projections of enrollments in elementary and secondary schools, by grade, shown in table 1.

College Enrollment, by Sex, Attendance Status, and Level Enrolled; and by Type and Control of Institution

The third stage of EDMOD projects enrollments in institutions of higher education, by sex, attendance status, and level enrolled by student and by type and control of institution. For each age group, the percent of total enrollment by age, attendance status, level enrolled, and type of institution was projected. These projections for 2007 and 2012 are shown in tables A1.6 and A1.7, along with actual values for 2000. For all projections, it was assumed that there was no enrollment in 2-year institutions at the postbaccalaureate level (graduate and first-professional).

The projected rates in tables A1.6 and A1.7 were then adjusted to agree with the projected age-specific enrollment rates in the first stage of EDMOD. The adjusted rates were then applied to the projected enrollments by age group, sex, and attendance status from the first stage of EDMOD to obtain projections by age group, sex, attendance status, level enrolled, and type of institution.

For each enrollment category—sex, attendance status, level enrolled, and type of institution—public enrollment was projected as a percent of total enrollment. Projections for 2007 and 2012 are shown in table A1.8, along with actual percents for 2000. The projected rates were then applied to the projected

enrollments in each enrollment category to obtain projections by control of institution.

For each category by sex, enrollment level, and type and control of institution, graduate enrollment was projected as a percent of postbaccalaureate enrollment. Actual rates for 2000 and projections for 2007 and 2012 are shown in table A1.9. The projected rates in table A1.9 were then applied to projections of postbaccalaureate enrollment to obtain graduate and first-professional enrollment projections by sex, attendance status, and type and control of institution.

Full-Time-Equivalent Enrollment, by Type and Control of Institution and by Level Enrolled

The fourth stage of EDMOD projects full-time-equivalent enrollment, by type and control of institution and by level enrolled. For each enrollment category by level enrolled and by type and control of institution, the full-time-equivalent of part-time enrollment was projected as a percent of part-time enrollment. Actual percents for 2000 and projections for 2007 and 2012 are shown in table A1.10.

These projected percents were applied to projections of enrollment by level enrolled and by type and control of institution from the third stage of EDMOD. The projections were added to projections of full-time enrollment (from the previous stage) to obtain projections of full-time-equivalent enrollment.

Projection Accuracy

An analysis of projection errors from the past 19 editions of *Projections of Education Statistics* indicates that the mean absolute percentage errors (MAPEs) for lead times of 1, 2, 5, and 10 years out for projections of public school enrollment in grades K-12 were 0.2, 0.5, 1.1, and 2.7 percent, respectively. For the 1-year-out prediction, this means that one would expect the projection to be within 0.2 percent of the actual value, on the average. For projections of public school enrollment in grades K-8, the MAPEs for lead times of 1, 2, 5, and 10 years were 0.3, 0.5, 1.2, and 4.0 percent, respectively, while those for projections of public school enrollment in grades 9-12 were 0.6, 0.8, 1.4, and 2.9 percent for the same lead times.

For projections of total enrollment in degreegranting institutions, an analysis of projection errors based on the past 6 editions of *Projections of Education* Statistics indicates that the MAPEs for lead times of 1, 2, and 5 years were 1.2, 0.8, and 2.4 percent, respectively. For the 1-year-out prediction, this means that one would expect the projection to be within 1.2 percent of the actual value, on the average. For more information on mean absolute percentage errors, see table A2, page 79.

Basic Methodology

The notation and equations that follow describe the basic models used to project public elementary and secondary enrollment.

Public Elementary and Secondary Enrollment

Let:

i = Subscript denoting age

j = Subscript denoting grade

t = Subscript denoting time

K_t = Enrollment at the nursery and kindergarten level

 G_{it} = Enrollment in grade j

 G_{1t} = Enrollment in grade 1

E_t = Enrollment in elementary special and ungraded programs

S_t = Enrollment in secondary special and ungraded programs

PG_t = Enrollment in postgraduate programs

 P_{it} = Population age i

RK_t = Enrollment rate for nursery and kindergarten

 RG_{lt} = Enrollment rate for grade 1

RE_t = Enrollment rate for elementary special and ungraded programs

RS_t = Enrollment rate for secondary special and ungraded programs

RPG_t = Enrollment rate for postgraduate programs

EG_t = Total enrollment in elementary grades G(K-8)



SG_t = Total enrollment in secondary grades (9-12)

R_{jt} = Progression rate for grade j: the proportion that enrollment in grade j in year t is of enrollment in grade j - 1 in year t-1.

Then:

$$EG_t = K_t + E_t + \sum_{j=1}^{8} G_{jt}$$

$$SG_t = S_t + PG_t + \sum_{j=9}^{12} G_{gt}$$

Where:

$$K_1 = RK_1(P_{5t})$$

$$G_{jt} = R_{jt} \left(G_{j-1,t-1} \right)$$

$$\mathbf{E}_{t} = \mathbf{R}\mathbf{E}_{t} \left(\sum_{j=5}^{13} \mathbf{P}_{it} \right)$$

$$G_{11} = RG_{11}(P_{61})$$

$$S_{t} = RS_{t} \left(\sum_{i=14}^{17} P_{it} \right)$$

$$PG_{1} = RPG_{1}(P_{181})$$

Higher Education Enrollment

For institutions of higher education, projections were computed separately by sex and attendance status of student. The notation and equations are:

Let



i = Subscript denoting age except:

i = 25: ages 25-29

i = 26: ages 30-34

i = 27: ages 35 and over for enrollment

(35-44 for population)

t = Subscript denoting year

E_{it} = Enrollment of students age i

P_{it} = Population age i

R_{it} = Enrollment rate for students age i

T_{it} = Total enrollment for particular subset of students: full-time men, full-time women, part-time men, part-time women

Then:

$$T_{it} = \sum_{i=16}^{27} E_{it}$$

Where:

$$E_{it} = R_{it}(P_{it})$$

Methodological Tables

Tables A1.11 and A1.12 give the rates used to calculate projections of enrollments and basic assumptions underlying enrollment projections.

Private School Enrollment

This edition is the second report that contains projected trends in elementary and secondary enrollment by grade level in private schools produced using the grade progression rate method.

Private school enrollment data from the National Center for Education Statistics' Private School Universe Survey for 1989–90, 1991–92, 1993–94, 1995–96, 1997–98, and 1999–2000 were used to develop these projections. In addition, population estimates for 1989 to 1999 and population projections for 2000 to 2012 from the U.S. Census were used to develop the projections.

The grade progression rate method was used to project private elementary and secondary school enrollment. The grade progression rate method starts with 6-year-olds entering first grade and then follows their progress through private elementary and secondary

schools. The method requires calculating the ratio of the number of children in one year who "survive" the year and enroll in the next grade the following year.

Projections of enrollment in private elementary and secondary schools were developed using primarily the grade progression rate method. Kindergarten and first grade enrollments are based on projected enrollment rates of 5- and 6-year-olds. These projected enrollment rates are applied to population projections of 5- and 6-year-olds developed by the U.S. Census Bureau.

Enrollments in grades 2 through 12 are based on projected grade progression rates. These projected rates are then applied to the current enrollment by grade to yield grade-by-grade projections for future years. Enrollment rates of 5- and 6-year-olds and grade progression rates are projected using single exponential smoothing. Elementary ungraded and enrollments and secondary ungraded and special enrollments are projected to remain constant at their 1999 levels. To obtain projections of total enrollment, projections of enrollments for the individual grades (kindergarten through 12) and ungraded and special classes were summed.

The grade progression rate method assumes that past trends in factors affecting private school enrollments will continue over the projection period. This assumption implies that all factors influencing enrollments will display future patterns consistent with past patterns. This method implicitly includes the net effect of such factors as migration, dropouts, deaths, nonpromotion, and transfers to and from public schools.

Mean absolute percentage errors (MAPEs) of the projection accuracy of private school enrollment were not developed because these projections were prepared for the first time using a new data source and methodology. As additional data becomes available MAPEs can then be calculated.

State Level

For the 50 States and the District of Columbia, this edition contains projected trends in elementary and secondary enrollment by grade level in public schools from 2001 to the year 2012. This is the eighth report on state-level projections for public school elementary and secondary education statistics.

Public school enrollment data from the National Center for Education Statistics' Common Core of Data survey for 1970 to 2000 were used to develop these projections. This survey does not collect data on enrollment for private schools. In addition, population estimates for 1970 to 2000 and population projections for 2001 to 2012 from the U.S. Census Bureau were used to develop the projections.

Table A1.11 describes the number of years, projection methods, and smoothing constants used to project enrollments in public schools. Also included in table A1.11 is the procedure for choosing the different smoothing constants for the time series models.

Projections of enrollment in public elementary and secondary schools by state were developed using primarily the grade progression rate method. Kindergarten and first grade enrollments are based on projected enrollment rates of 5- and 6-year-olds. These projected enrollment rates are applied to population projections of 5- and 6-year-olds developed by the U.S. Census Bureau.

Enrollments in grades 2 through 12 are based on projected grade progression rates in each state. These projected rates are then applied to the current enrollment by grade to yield grade-by-grade projections for future years. Enrollment rates of 5- and 6-year-olds and grade progression rates are projected using single exponential smoothing. Elementary ungraded and special enrollments and secondary ungraded and special enrollments are projected to remain constant at their 2000 levels. To obtain projections of total enrollment, projections of enrollments for the individual grades (kindergarten through 12) and ungraded and special classes were summed.

The grade progression rate method assumes that past trends in factors affecting public school enrollments will continue over the projection period. This assumption implies that all factors influencing enrollments will display future patterns consistent with past patterns. Therefore, this method has limitations when applied to states with unusual changes in migration rates. This method implicitly includes the net effect of such factors as migration, dropouts, deaths, nonpromotion, and transfers to and from private schools.

Adjustment to National Projections

The sum of the projections of state enrollments was adjusted to equal the national projections of public school K-12, K-8, and 9-12 enrollments shown in table 1. For details on the methods used to develop the national projections for this statistic, see the section on national enrollment projections in this appendix.



Table A1.1.—College enrollment rates, by age, sex, and attendance status, with middle alternative projections: Fall 2000, 2007, and 2012

		<u>Actual</u>	Projected	
Age, se	x, and attendance status	2000	2007	2012
	Men			
Jull-time				
16 years old		0.4	0.3	0.3
17 years old		1.8	3.5	3.6
18 years old		26.8	31.3	32.0
19 years old		33.5	33.8	34.
20 years old		29.8	29.9	30.
21 years old		24.6	27.5	28.
22 years old		22.2	19.5	19.
23 years old		14.2	13.7	14.
24 years old		10.2	10.6	10.
25 to 29 years old		4.7	4.7	4.
30 to 34 years old		2.0	1.8	1.
35 to 44 years old		1.1	0.9	0.
Part-time			•	•
16 years old		0.0	0.1	0.
17 years old		0.5	0.7	0.
18 years old		7.1	4.9	5.
19 years old		9.0	7.5	7.
20 years old		7.5	6.8	6.
21 years old		6.1	6.4	6.
22 years old	,	7.8	8.5	8.
23 years old		7.5	6.7	6.
24 years old		10.2	5.6	5.
25 to 29 years old		5.0	5.7	5.
30 to 34 years old	.,	3.4	3.8	3.
35 to 44 years old		3.4	3.7	3.
	Women			
Full-time 16 years old		0.5	0.3	0.
17 years old		3.3	4.1	4.
18 years old		40.9	44.3	46.
19 years old		44.6	44.4	46
20 years old		35.9	37.5	39.
21 years old		31.2	33.3	35
22 years old		21.0	19.6	20
•		14.4	14.5	15
23 years old		11.3	11.4	12
24 years old		5.2	4.9	5
25 to 29 years old		2.3	2.5	2.
30 to 34 years old 35 to 44 years old		1.5	2.0	2
Part-time				
16 years old		0.0	0.0	0
17 years old		0.4	0.7	0
18 years old		4.2	6.2	6
19 years old		9.2	7.4	7
20 years old		8.3	7.9	8
21 years old	***************************************	10.8	8.1	8
22 years old	***************************************	8.0	10.4	10
23 years old		11.2	8.6	8
24 years old		10.3	7.5	7
25 to 29 years old		7.1	7.4	7
30 to 34 years old		5.2	5.8	6
20 .2 0 . jump blu		6.2	7.4	7.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Enrollment in Degree-Granting Institutions Model. (This table was prepared May 2002.)



Table A1.2.—Equations for full-time and part-time college enrollment rates of men

	Independent variable	Coefficient	Standard error	T-statistic	R ²	F-statistic
Full-time	<u></u>					
Constant		-5.30	0.19	-28.4	0.99	883.4
Dummy 18		2.62	0.12	21.1		
Dummy19		2.77	0.12	22.4		
Dummy20		2.60	0.14	19.1		
Dummy21		2.47	0.13	19.2		
Dummy22	•	2.03	0.17	12.2		
Dummy23		1.59	0.14	11.0		
Dummy24		1.28	0.16	7.8		
Dummy25-29		0.46	0.16	2.9		
Dummy30-34		-0.54	0.14	-4.0		
Dummy35-44		-1.25	0.18	-6.9		
LNURM		0.07	0.03	2.0		
LNCPIMA		0.35	0.03	12.5		
Rhol7		0.51	0.19	2.7		
Rhol8		0.62	0.16	3.8		
Rho19		0.35	0.19	1.9		
Rho20		0.46	0.18	2.5		
Rho21		0.38	0.18	2.1		
Rho22		0.63	0.16	3.9		
tho23		0.41	0.19	2.2		
tho24		0.72	0.14	5.1		
Rho25-29		0.64	0.13	5.1		
Rho30-34		0.37	0.13	2.9		
Rho35-44		0.70	0.13	6.1		
Part-time						
Constant		-6.41	0.20	-32.0	0.92	127.7
Dummy18		2.38	0.09	25.6	0.72	127.7
Dummy 19		2.76	0.24	11.3		
Dummy20		2.71	0.08	32.3		
Dummy21		2.61	0.10	25.7		
Dummy22		2.80	0.09	30.3		
Dummy23		2.46	0.09	26.2		
Dummy24		2.24	0.12	18.9		
Dummy25-29		2.20	0.11	19.8		
Dummy30-34		1.75	0.16	10.7		
Dummy35-44		1.69	0.09	18.2		
NCPIMA		0.25	0.03	7.5		
Rhol7		-0.27	0.20	-1.4		
Rho18		0.01	0.22	0.0		
Rho19		0.85	0.13	6.6		
Rho20		0.29	0.13	1.5		
Cho21		0.56	0.20 0.17	1.5 3.3		
Cho22		0.23	0.17	3.3 1.2		
Cho23		-0.05	0.20	-0.2		
tho24		0.44	0.23			
tho25-29		0.70	0.23 0.12	1.9		
Cho30-34		0.70	0.12	6.0 8.5		
		0.82	0.10	8.5		

R2 = Coefficient of determination.

F-Statistic = Obtained statistic for the F value.

Where:

Dummy(age) = 1 for each age and 0 otherwise.

Rho(agc)

= Autocorrelation coefficient for each age.

= Log unemployment rate.

LNURM LNCPIMA

= Log of four-period weighted average of per capita real disposable income.

NOTE: The regression method used to estimate the full-time and part-time equations was pooled least squares with first-order autocorrelation correction. The time period used to estimate the equations is from 1975 to 2000. The number of observations is 286. For additional information, see

The Modern Forecaster by Hans Levenbach and James P. Cleary (Van Nostrand Reinhold Company Inc., New York, 1984, pp. 354-373).

SOURCE: U.S. Department of Education, National Center for Education Statistics, Enrollment in Degree-Granting Institutions Model.

(This table was prepared May 2002.)



Table A1.3.—Equations for full-time and part-time college enrollment rates of women

	Independent variable	Coefficient	Standard error	T-statistic	R²	F-statistic
Full-time						
Constant		-8.37	0.48	-17.5	0.99	1001
Dummy18		2.96	0.45	6.5		
Dummy 19		2.99	0.44	6.7		
Dummy20		2.73	0.45	6.1		
Dummy21		2.55	0.44	5.8		
Dummy22		1.81	0.44	4.1		
Dummy23		1.42	0.45	3.2		
Dummy24		1.13	0.43	2.6		
Dummy25-29		0.24	0.48	0.5		
Dummy30-34		-0.44	0.45	-1.0		
Dummy35-44		-0.65	0.46	-1.4		
LNURM		0.07	0.06	1.1		
LNCPIMA		0.92	0.04	21.5		
Rhol7		0.90	0.10	9.4		
Rho18		0.64	0.15	4.3		
Rho19		-0.40	0.19	-2.1		
Rho20		0.04	0.20	0.2		
Rho21		0.43	0.18	2.3		
Rho22		0.76	0.12	6.3		
Rho23		0.74	0.13	5.9		
Rho24		0.68	0.14	4.8		
Rho25-29		0.70	0.15	4.5		
Rho30-34		0.17	0.20	0.8		
Rho35-44		0.13	0.21	0.7		
Part-time						
Constant		-7.72	0.49	-15.9	0.78	40.6
Dummy18		2.86	0.45	6.3		
Dummy19		3.01	0.50	6.0		
Dummy20		3.01	0.47	6.4		
Dummy21		2.93	0.51	5.7		
Dummy22		3.03	0.46	6.5		
Dummy23		2.74	0.47	5.9		
Dummy24		2.55	0.47	5.4		
Dummy25-29		2.46	0.45	5.4		
Dummy30-34		2.20	0.49	4.5		
Dummy35-44		2.46	0.46	5.4		
LNCPIMA		0.47	0.03	14.6		
Rho17		0.38	0.19	2.0		
Rho18		0.33	0.22	1.5		
Rho19		0.75	0.15	5.0		
Rho20		0.27	0.20	1.4		
Rho21		0.69	0.17	4.0		
Rho22		0.30	0.21	1.5		
Rho23		0.48	0.20			
Rho24		0.61	0.19	3.2		
Rho25-29		0.42	0.18	2.3		
Rho30-34		0.82	0.12			
Rho35-44		0.75	0.15	4.9		

 $R^2 = Coefficient of determination.$

F-Statistic = Obtained statistic for the F value.

Where:

Dummy(age) = 1 for each age and 0 otherwise.

Rho(agc) = Autocorrelation coefficient for each age.

LNURM = Log unemployment rate.

NCPIMA = Log of four-period weighted average of per capita real disposable income.

NOTE: The regression method used to estimate the full-time and part-time equations was pooled least squares with first-order autocorrelation correction.

The time period used to estimate the equations is from 1975 to 2000. The number of observations is 286. For additional information, see

The Modern Forecaster by Hans Levenbach and James P. Cleary (Van Nostrand Reinhold Company Inc., New York, 1984, pp. 354-373). SOURCE: U.S. Department of Education, National Center for Education Statistics, Enrollment in Degree-Granting Institutions Model.

(This table was prepared May 2002.)



Table A1.4.—Enrollment rates in public schools, by grade level: Fall 2000, 2007, and 2012

Grade level	Population	2000 ——	Projected		
	base age	2000	2007	2012	
Kindergarten	5	108.5	106.6	106.6	
Grade 1	6	93.5	93.4	93.4	
Elementary ungraded and special education	5-13	1.0	1.2	1.2	
Secondary ungraded and special education	14-17	1.1	1.3	1.3	
Postgraduate	18	0.2	0.2	0.2	

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Elementary and Secondary Enrollment Model. (This table was prepared May 2002.)

Table A1.5.—Public school grade progression rates: Fall 2000, 2007, and 2012

Grade	2000	Projected	
	2000 —	2007	2012
1 to 2	98.6	98.2	98.2
2 to 3	100.5	100.3	100.3
3 to 4	100.5	100.1	100.1
4 to 5	100.4	100.4	100.4
5 to 6	101.5	101.3	101.3
6 to 7	101.7	101.4	101.4
7 to 8	99.7	99.2	99.2
8 to 9	113.2	112.9	112.9
9 to 10	88.6	88.8	88.8
0 to 11	90.2	89.9	89.9
11 to 12	92.3	91.9	91.9

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Elementary and Secondary Enrollment Model. (This table was prepared May 2002.)



Table A1.6.—Full-time enrollment, by level enrolled and type of institution, as a percent of total enrollment, for each age and sex classification: Fall 2000, 2007, and 2012

			Men	_		Wo <u>men</u>	
	Age	2000	2007	2012	2000	2007	2012
		_	Und	ergraduate, 4-yea	r institutions		
16 to 17 years old		38.1	53.0	53.0	68.8	67.7	67.7
18 to 19 years old		61.8	64.I	64.1	70.4	68.8	68.8
20 to 21 years old		78.2	77.4	77.4	74.7	76.8	76.8
22 to 24 years old		66.7	64.9	64.9	56.6	59.2	59.2
25 to 29 years old		49.1	46.4	46.4	43.2	46.0	46.0
30 to 34 years old		39.7	38.4	38.4	50.2	43.6	43.6
35 years and over		38.0	35.4	35.4	39.5	40.4	40.4
35 years and over			Und	ergraduate, 2-yea	r institutions		
16 to 17 was and		57.8	44.6	44.6	30.2	31.5	31.5
16 to 17 years old	***************************************	37.0	35.0	35.0	29.2	30.5	30.5
18 to 19 years old		18.4	20.2	20.2	23.9	21.3	21.3
20 to 21 years old	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	16.1	16.3	16.3	18.0	17.8	17.8
22 to 24 years old		15.6	16.2	16.2	21.3	20.9	20.9
25 to 29 years old		10.6	14.3	14.3	20.7	30.1	30.1
30 to 34 years old		30.9	27.9	27.9	31.1	30.5	30.5
35 years and over		30.9		accalaureate, 4-y		30.0	
				2.5	l.1	0.8	0.8
16 to 17 years old		4.2	2.5			0.6	0.6
18 to 19 years old		1.2	0.9	0.9	0.4 1.5	1.9	1.9
20 to 21 years old		3.4	2.4	2.4			23.0
22 to 24 years old		17.2	18.9	18.9	25.4	23.0 33.1	33.1
25 to 29 years old		35.2	37.4	37.4	35.4		
30 to 34 years old		49.8	47.3	47.3	29.2	26.3	26.3
35 years and over		31.0	36.7	36.7	29.4	29.0	29.0

NOTE: Projections shown for 2007and 2012 were adjusted to add to 100 percent before computing projections shown in tables 10 through 22. SOURCE: U.S. Department of Education, National Center for Education Statistics, Enrollment in Degree-Granting Institutions Model. (This table was prepared May 2002.)



Table A1.7.—Part-time enrollment, by level enrolled and type of institution, as a percent of total enrollment, for each age and sex classification: Fall 2000, 2007, and 2012

	Age		Men			Women		
	Age	2000	2007	2012	2000	2007	2012	
			Und	ergraduate, 4-yea	r institutions			
16 to 17 years old		0.0	0.7	0.7	0.0	4.6	4.6	
18 to 19 years old		12.8	16.7	16.7	16.0	18.8	18.8	
20 to 21 years old		36.3	30.5	30.5	24.7	27.3	27.3	
22 to 24 years old		31.3	31.6	31.6	34.3	33.8	33.8	
25 to 29 years old		29.9	27.9	27.9	24.9	25.4	25.4	
30 to 34 years old		26.3	26.9	26.9	25.0	25.7	25.7	
35 years and over		16.0	20.5	20.5	20.1	20.9	20.9	
			Und	ergraduate, 2-yea	r Institutions			
16 to 17 years old		100.0	98.7	98.7	100.0	94.8	94.8	
18 to 19 years old	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	86.3	82.6	82.6	84.0	81.0	81.0	
20 to 21 years old	***************************************	62.9	68.9	68.9	74.8	71.7	71.7	
22 to 24 years old		60.8	60.1	60.1	53.1	54.4	54.4	
25 to 29 years old		51.7	52.7	52.7	51.4	51.1	51.1	
30 to 34 years old		47.4	46.6	46.6	51.3	52.5	52.5	
35 years and over		56.2	52.7	52.7	57.5	55.8	55.8	
			Postba	ccalaureate, 4-ye	ar Institutions			
16 to 17 years old		0.0	0.7	0.7	0.0	0.6	0.6	
18 to 19 years old		0.8	0.7	0.7	0.0	0.2	0.2	
20 to 21 years old	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.7	0.6	0.6	0.5	1.0	1.0	
22 to 24 years old		7.9	8.3	8.3	12.6	11.7	11.7	
25 to 29 years old		18.5	19.4	19.4	23.7	23.5	23.5	
30 to 34 years old		26.3	26.5	26.5	23.7	21.8	21.8	
35 years and over		27.8	26.8	26.8	22.4	23.3	23.3	

NOTE: Projections shown for 2007 and 2012 were adjusted to add to 100 percent before computing projections shown in tables 10 through 22. SOURCE: U.S. Department of Education, National Center for Education Statistics, Enrollment in Degree-Granting Institutions Model. (This table was prepared May 2002.)



Table A1.8.—Public college enrollment as a percent of total enrollment, by attendance status, sex, level enrolled, and type of institution: Fall 2000, 2007, and 2012

The state of the s			Men		Women			
Enrollment category		2000	2007	2012	2000	2007	2012	
Full-time, undergraduate, 4-year institutions		67.0	67.6	67.6	66.2	66.6	66.6	
Part-time, undergraduate, 4-year institutions		71.0	71.4	71.4	68.6	68.2	68.2	
Full-time, undergraduate, 2-year institutions		89.5	90.0	90.0	90.8	90.7	90.7	
Part-time, undergraduate, 2-year institutions		99.1	98.9	98.9	99.0	98.8	98.8	
Full-time, postbaccalaureate, 4-year institutions		52.2	53.0	53.0	53.5	54.6	54.6	
Part-time, postbaccalaureate, 4-year institutions		56.5	57.0	57.0	61.8	62.4	62.4	

SOURCE: U.S. Department of Education, National Center for Education Statistics, Enrollment in Degree-Granting Institutions Model. (This table was prepared May 2002.)

Table A1.9.—Graduate enrollment as a percent of total postbaccalaureate enrollment, by sex, attendance status, and type and control of institution: Fall 2000, 2007, and 2012

Enrollment category —			Men		Women			
		2000	2007	2012	2000	2007	2012	
Full-time, 4-year, public		78.0	77.8	77.8	80.8	81.0	81.0	
Part-time, 4-year, public		98.7	98.8	98.8	99.2	99.3	99.3	
Full-time, 4-year, private	***************************************	65.9	63.8	63.8	73.2	72.2	72.2	
Part-time, 4-year, private		91.6	91.4	91.4	95.4	95.4	95.4	

SOURCE: U.S. Department of Education, National Center for Education Statistics, Enrollment in Degree-Granting Institutions Model. (This table was prepared May 2002.)

Table A1.10.—Full-time-equivalent of part-time enrollment as a percent of part-time enrollment, by level enrolled and by type and control of institution: Fall 2000, 2007, and 2012

Enrollment category		2000	2007	2012
Public, 4-year, undergraduate		40.4	40.4	40.4
Public, 2-year, undergraduate		33.6	33.6	33.6
Private, 4-year, undergraduate		39.3	39.3	39.3
Private, 2-year, undergraduate		39.7	39.7	39.7
Public, 4-year, graduate		36.2	36.2	36.2
Private, 4-year, graduate		38.2	38.2	38.2
Public, 4-year, first-professional		60.0	60.1	60.1
Private, 4-year, first-professional		54.5	54.6	54.6

SOURCE: U.S. Department of Education, National Center for Education Statistics, Enrollment in Degree-Granting Institutions Model. (This table was prepared May 2002.)

Table A1.11—Number of years, projection methods, and smoothing constants used to project public school enrollments and high school graduates, by state

Projected state variable	Number of years (1970-2000)	Projection method	Smoothing constant	Choice of smoothing constant
Grade progression rates	31	Single exponential smoothing	0.4	Empirical research
Graduates/grade 12 enrollment	_ 31	Single exponential smoothing	0.4	Empirical research

SOURCE: U.S. Department of Education, National Center for Education Statistics, State Public Elementary and Secondary Enrollment Model, and State Public High School Graduates Model. (This table was prepared May 2002.)



Table A1.12.—Enrollment (assumptions)

Variables	Assumptions	Alternatives	Tables
Elementary and Secondary enrollment	Age-specific enrollment rates will remain constant at levels consistent with the most recent rates.	Middle (no alternatives)	1, 2
	Public enrollment rates and public grade retention rates will remain constant at levels consistent with the most recent rates.	Middle (no alternatives)	1,2
	The percentage of 7th and 8th grade public students enrolled in school organized as secondary schools will remain constant at levels consistent with the most recent rates.	Middle (no alternatives)	1,2
College enrollment, by age			
Full-time	Age-specific enrollment rates by sex are a function of dummy variables by age, middle alternative log of four-period weighted average of real disposable income per capita, and middle	Middle	10 14-19
	alternative log unemployment rate by age group.		
Part-time	Age-specific enrollment rates by sex are a function of dummy variables by age and the middle alternative log of four-period weighted average of real disposable income per capita.	Middle	10 14-19
College enrollment, by sex, attendance status, level enrolled, and type of institution	For each group and for each attendance status separately, percent of total enrollment by sex, level enrolled, and type of institution will follow past trends through 2012. For each age group and attendance status category, the sum of the percentages must equal 100 percent.	High, middle, and low	10 14-19
College enrollment, by control of institution	For each enrollment category, by sex, attendance status, and level enrolled, and by type of institution, public enrollment as a percent of total enrollment will remain constant at levels consistent with the most recent rates.	High, middle, and low	10 14-19
Graduate enrollment	For each enrollment category, by sex and attendance status of student, and by type and control of institution, graduate enrollment as a percent of postbaccalaureate enrollment will remain constant at levels consistent with the most recent rates.	High, middle, and low	20
Full-time-equivalent of part-time enrollment	For each enrollment category, by type and control of institution and level enrolled, the percent that full-time-equivalent of part-time enrollment is of part-time enrollment will remain constant at levels consistent with the most recent rates.	High, middle, and low	22

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Elementary and Secondary Enrollment Model, and Enrollment in Degree-Granting Institutions Model. (This table was prepared May 2002.)



A2. High School Graduates

National

Projections of public high school graduates were developed in the following manner. The number of public high school graduates was expressed as a percent of grade 12 enrollment in public schools for 1972 to 2000. This percent was projected using single exponential smoothing and applied to projections of grade 12 enrollment to yield projections of high school graduates in public schools. (This percent does not make any specific assumptions regarding the dropout rate. The effect of the 12th grade dropout proportion is reflected implicitly in the graduate proportion.) The grade 12 enrollment was projected based on grade progression rates. This percent was assumed to remain constant at levels consistent with the most recent rates. This method assumes that past trends in factors affecting graduation ratios, such as dropouts, migration, and public or private transfers, will continue over the projection period. In addition to student behaviors, the projected number of graduates could be impacted by changes in policies affecting graduation requirements.

The number of private high school graduates was expressed as a percent of grade 12 enrollment in private schools for 1989 to 1999. This percent was projected using single exponential smoothing and applied to projections of grade 12 enrollment to yield projections of high school graduates in private schools. (This percent does not make any specific assumptions regarding the dropout rate. The effect of the 12th grade dropout proportion is reflected implicitly in the graduate proportion.) The grade 12 enrollment was projected based on grade progression rates. This percent was assumed to remain constant at levels consistent with the most recent rates. This method assumes that past trends in factors affecting graduation ratios, such as dropouts, migration, and public or private transfers, will continue over the projection period. In addition to student behaviors, the projected number of graduates could be impacted by changes in policies affecting graduation requirements.

Projection Accuracy

An analysis of projections from models used in the past 19 editions of *Projections of Education Statistics* indicates that the mean absolute percentage errors (MAPEs) for projections of public high school graduates were 0.7 percent for 1 year ahead, 0.9 percent for 2 years ahead, 1.6 percent for 5 years ahead, and 4.2 percent for 10 years ahead. For the 1-year-ahead prediction, this means that one would expect the projection to be within 0.7 percent of the actual value, on the average. For more information on the mean absolute percentage errors, see table A2, page 79.

State Level

This edition contains projections of high school graduates from public schools by state from 2000–01 to 2011–12. Public school graduate data from the National Center for Education Statistics' Common Core of Data survey for 1969–70 to 1999–2000 were used to develop these projections. This survey does not collect graduate data for private schools.

Projections of public high school graduates by state were developed in the following manner. For each state, the number of public high school graduates was expressed as a percent of grade 12 enrollment in public schools for 1970 to 2000. This percent was projected using single exponential smoothing and applied to projections of grade 12 enrollment to yield projections of high school graduates in public schools. Projections of grade 12 enrollment were developed based on the grade progression rates discussed in section A1, Enrollment. This percent was assumed to remain constant at levels consistent with the most recent rates. This method assumes that past trends in factors affecting public high school graduates will continue over the projection period.



A3. Earned Degrees Conferred

Projections of associate's, bachelor's, master's, doctor's, and first-professional degrees by sex were based on demographic models that relate degree awards to college-age populations and college enrollment by level enrolled and attendance status.

Associate's Degrees

Associate's degree projections by sex were based on undergraduate enrollment by attendance status in 2-year institutions. Results of the regression analysis used to project associate's degrees by sex are shown in table A3.1.

Bachelor's Degrees

Bachelor's degree projections by sex were based on the 18- to 24-year-old population and undergraduate enrollment by attendance status in 4-year institutions. Results of the regression analysis used to project bachelor's degrees by sex are shown in table A3.1.

Master's Degrees

Master's degree projections by sex were based on full-time graduate enrollment by sex. Results of the regression analysis used to project master' degrees by sex are shown in table A3.1.

Doctor's Degrees

Doctor's degree projections for men were based on full-time male graduate enrollment and the unemployment rate. Doctor's degree projections for women were based on the 35- to 44-year-old population of women and full-time female graduate

enrollment. The results of the regression analysis used to project doctor's degrees by sex are shown in table A3.1.

First-Professional Degrees

First-professional degree projections by sex were based on first-professional enrollment by attendance status in 4-year institutions. Results of the regression analysis used to project first-professional degrees by sex are shown in table A3.1.

Methodological Tables

These tables describe equations used to calculate projections (table A3.1), and basic assumptions underlying projections (table A3.2).

Projection Accuracy

An analysis of projection errors from similar models used in the past 6 editions of Projections of Education Statistics indicates that mean absolute percentage errors (MAPEs) for associate's degrees were 2.4 percent for 1 year out, 3.3 percent for 2 years out, and 6.6 percent for 5 years out. For the 1-year-out prediction, this means that one would expect the projection to be within 2.4 percent of the actual value, on average. MAPEs for bachelor's degree projections were 1.0 percent for 1 year out, 2.1 percent for 2 years out, and 4.1 percent for 5 years out. MAPEs for master's degrees were 1.2, 4.3, and 5.5, respectively. For doctor's degrees, the MAPEs were 2.6, 3.4, and 3.0 percent, respectively. first-professional degrees, the MAPEs were 1.6, 1.6, and 5.9 percent, respectively. For more information on the mean absolute percentage errors, see table A2, page 79.



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Table A3.1.—Equations for earned degrees conferred

Dependent Variable				E	quation		R ²	Durbin-Watson statistic ¹	Estimation technique ²	Rho	Time period
Associate's degrees Men	ASSOCM	=	107,075	+	54.9UGFT2M (1.5)	+ 39.2UGPT2M (2.4)	0.83	1.6	ARI	0.70 (4.3)	1970-71 to 1999-2000
Associate's degrees Women	ASSOCW	=	85,571	+	185.3UGFT2W (6.2)		0.99	1.4	ARI	0.98 (36.6)	1970-71 to 1999-2000
Bachelor's degrees Men	BACHM	=	239,629	•	11.0P1824M (-3.7)	+ 174.9UGFT4M (6.1)	0.89	1.6	ARI	0.61 (3.8)	1970-71 to 1999-2000
Bachelor's degrees Women	BACHW	=	204,060	-	16.7P1824W (-3.1)	+246.1UGFT4W (17.5)	0.99	1.1	ARI	0.78 (5.8)	1970-71 to 1999-2000
Master's degrees Men	MASTM	=	29,237	+	427.8GFTM (4.9)		0.94	1.3	ARI	0.90 (12.1)	1970-71 to 1999-2000
Master's degrees Women	MASTW	=	35,951	+	548.2GFTW (14.0)		0.99	1.1	ARI	0.92 (14.5)	1972-73 to 1999-2000
Doctor's degrees Men	DOCM	=	18,863	+	22.7GFTM1 (1.3)	- 904.1RUC (-0.1)	0.89	1.1	ARI	0.96 (21.8)	1970-71 to 1999-2000
Doctor's degrees Women	DOCW	=	- 1,479	+	0.3P3544W (2.2)	+ 33.4GFTW (5.3)	0.99	2.1	ARI	0.70 (3.6)	1972-73 to 1999-2000
First-professional degrees Men	FPROM	=	10,581	+	227.5FPFTM (7.1)		0.88	1.9	ARI	0.50 (2.6)	1970-71 to 1999-2000
First-professional degrees Women	FPROW	=	- 1,174	+	285.1FPFTW (23.1)	+ 221.5FPPTW (2.1)	0.99	1.5	OLS		1971-72 to 1999-2000

For an explanation of the Durbin-Watson statistic, see J. Johnston, Econometric Methods, New York: McGraw-Hill, 1972, pages 251-252.

²AR1 indicates an estimation procedure for correcting the problem of first-order autocorrelation. OLS indicates Ordinary Least Squares. For a general discussion of the problem of autocorrelation, and the method used to forecast in the presence of autocorrelation, see G. Judge, W. Hill, R. Griffiths, H. Lutkepohl, and T. Lee, The Theory and Practice of Econometrics, New York: John Wiley and Sons, 1985, pages 315-318.

Where:	
ASSOCM	= Number of associate's degrees awarded to men
ASSOCW	= Number of associate's degrees awarded to women
BACHM	= Number of bachelor's degress awarded to men
BACHW	= Number of bachelor's degress awarded to women
MASTM	= Number of master's degrees awarded to men
MASTW	= Number of master's degrees awarded to women
DOCM	= Number of doctor's degress awarded to men
DOCW	= Number of doctor's degress awarded to women
FPROM	= Number of first-professional degrees awarded to men
FPROW	= Number of first-professional degrees awarded to women
UGFT2M	= Full-time male undergraduate enrollment in 2-year institutions, lagged 2 years, in thousands
UGPT2M	= Part-time male undergraduate enrollment in 2-year institutions, lagged 2 years, in thousands
UGFT2W	= Full-time female undergraduate enrollment in 2-year institutions, lagged 2 years, in thousands
P1824M	= Population of 18- to 24-year-old men, in thousands
P1824W	= Population of 18- to 24-year-old women, in thousands
UGFT4M	= Full-time male undergraduate enrollment in 4-year institutions, lagged 2 years, in thousands
UGFT4W	= Full-time female undergraduate enrollment in 4-year institutions, lagged 3 years, in thousands
GFTM	= Full-time male graduate enrollment, in thousands
GFTW	= Full-time female graduate enrollment, in thousands
P3544W	= Population of 35- to 44-year-old women, in thousands
GFTM1	= Full-time male graduate enrollment lagged one year, in thousands
GFTW	= Full-time female graduate enrollment, in thousands
RUC	= Unemployment rate
FPFTM	= Full-time male first-professional enrollment lagged 2 years, in thousands
FPFTW	= Full-time female first-professional enrollment lagged 1 year, in thousands
FPPTW	= Part-time female first-professional enrollment lagged 2 years, in thousands
NOTE: R2 indicates t	the coefficient of determination. Numbers in parentheses are t-statistics.

NOTE: R2 indicates the coefficient of determination. Numbers in parenthe SOURCE: U.S. Department of Education, National Center for Education Statistics, Earned Degrees Conferred Model.

(This table was prepared May 2002.)



Table A3.2.—Earned degrees conferred (assumptions)

Variables	Assumptions	Alternatives	Table
Associate's degrees	-		
Men	The number of associate's degrees awarded to men is a linear function of full- and part-time male undergraduate enrollment in 2-year institutions lagged 2 years. This relationship will continue through 2011-12.	Middle	26
Women	The number of associate's degrees awarded to women is a linear function of full-time female undergraduate enrollment in 2-year institutions lagged 2 years. This relationship will continue through 2011-12.	Middle	26
Bachelor's degrees	-	-	
Men	The number of bachelor's degrees awarded to men is a linear function of full-time male undergraduate enrollment in 4-year institutions lagged 2 years and the male 18- to 24-year-old population. This relationship will continue through 2011-12.	Middle	27
Women	The number of bachelor's degrees awarded to women is a linear function of full-time female undergraduate enrollment in 4-year institutions lagged 3 years and the female 18- to 24-year-old population. This relationship will continue through 2011-12.	Middle	27
Master's degrees	win continue an ough 2011-12.		
Men	The number of master's degrees awarded to men is a linear function of full-time male graduate enrollment. This relationship will continue through 2011-12.	Middle	28
Women	The number of master's degrees awarded to women is a linear function of full-time female graduate enrollment. This relationship will continue through 2011-12.	Middle	28
Doctor's degrees			
Men	The number of doctor's degrees awarded to men is a linear function of full-time male graduate enrollment lagged one year and the unemployment rate. This relationship will continue through 2011-12.	Middle	29
Women	The number of doctor's degrees awarded to women is a linear function of the 35- to 44-year-old population and full-time female graduate enrollment. This relationship will continue through 2011-12.	Middle	29
First-professional degrees			
Men	The number of first-professional degrees awarded to men is a linear function of full-time male first-professional enrollment lagged 2 years. This relationship will continue through 2011-12.	Middle	30
Women	The number of first-professional degrees awarded to women is a linear function of full-time female first-professional enrollment lagged 1 year and part-time female first-professional enrollment lagged 2 years. This relationship will continue through 2011-12.	Middle	30

SOURCE: U.S. Department of Education, National Center for Education Statistics, Earned Degrees Conferred Model. (This table was prepared May 2002.)



Appendix B Supplementary Tables



Table B1.—Annual number of births (U.S. Census projections, Middle Series): 1952 to 2012

Calendar Year

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1952

1953

1954

1955

1956 1957

1958

1959

1960

1961 1962

1963

1964

1965

1966

1967 1968

1969

1970 1971

1972 1973

1974

1975

1976

1977 1978

1979

1980 1981

1982

(In thousands)

Number of Births

3,933

3,989

4,102

4,128

4,244

4,332 4,279

4,313

4,307

4,317

4,213 4,142

4,070

3,801

3,642

3,555

3,535 3,626

3,739

3,556 3,258

3,137

3,160

3,144

3,168

3,327

3,333 3,494

3,612

3,629 3,681

Table B1.—Annual number of births (U.S. Census projections, Middle Series): 1952 to 2012—Continued

(In thousands)

		(III diodadida)
	Calendar Year	Number of Births
1983		3,639
1984		3,669
1985		3,761
1986		3,757
1987		3,809
1988		3,910
1989		4,041
1990		4,158
		4,111
1991		4,065
1992		•
1993		4,000
1994		3,953
1995		3,900
1996		3,891
1997		3,881
1998		3,942
1999		3,959
2000		4,059
		Projected
2001		3,932
2002		3,953
2003		3,978
2004	,	4,009
2005		4,045
2006		4,086
2007		4,133
2008		4,183
2009		4,234
2010		4,283
2011		4,328
2012		4.370

NOTE: Some data have been revised from previously published figures SOURCE: U.S. Department of Commerce, Bureau of the Census, Current Population Reports, Series P-25, Nos. 1092, 1095, and "National Population Estimates for the 1990s," December 2001, and "Annual Projections of the Total Resident Population: 1999 to 2100," January 2000; and U.S. Department of Health and Human Services, National Center for Health Statistics (NCHS) Annual Summary of Births, Marriages, Divorces, and Deaths: United States various years, National Vital Statistics Reports; and unpublished tabulations. (This table was prepared May 2002.)



Table B2.—Preprimary school-age populations (U.S. Census projections, Middle Series): 1987 to 2012

(In thousands)

		(in thousands)			
	Year (July 1)	3 years old	4 years old	5 years old	3 to 5 years old
1987		3,508	3,623	3,610	10,741
1988		3,619	3,556	3,627	10,802
1989		3,646	3,669	3,559	10,874
1990		3,658	3,697	3,679	11,034
1991		3,714	3,710	3,695	11,120
1992		3,808	3,769	3,710	11,287
1993		3,965	3,867	3,773	11,605
1994		3,990	4,024	3,868	11,882
1995		3,964	4,050	4,024	12,038
1996		3,888	4,023	4,050	11,961
1997		3,839	3,949	4,025	11,812
1998		3,799	3,897	3,950	11,647
1999		3,755	3,853	3,895	11,502
2000		3,761	3,808	3,851	11,420
			Projected	-,	11,125
2001		3,762	3,819	3,811	11,392
2002		3,765	3,818	3,820	11,403
2003		3,775	3,821	3,819	11,415
2004		3,789	3,830	3,821	11,440
2005		3,807	3,845	3,832	11,484
2006		3,827	3,862	3,845	11,535
2007		3,853	3,884	3,863	11,599
2008		3,883	3,909	3,884	11,677
2009		3,919	3,940	3,909	11,767
2010		3,960	3,976	3,939	11,874
2011		4,006	4,017	3,975	11,997
2012		4,053	4,063	4,016	12,133

NOTE: Some data have been revised from previously published figures. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Commerce, Bureau of the Census, Current Population Reports, Series P-25, Nos. 1092, 1095, and "National Population

Estimates," December 2001, and "Annual Projections of the Total Resident Population: 1999 to 2100," January 2000. (This table was prepared May 2002.)



Table B3.—School-age populations (U.S. Census projections, Middle Series), ages 5, 6, 5 to 13, and 14 to 17 years: 1987 to 2012

(In thousands) 5 to 13 years old 14 to 17 years old 6 years old 5 years old Year (July 1) 3,568 30,501 14,503 3,610 1987 31,030 14,023 3,627 3,611 1988 13,535 3,625 31,412 3,559 1989 32,002 13,322 3,561 3,679 1990 13,451 3,674 32,469 3,695 1991 3,694 32,943 13,702 3,710 1992 13,990 33,382 3,773 3,712 1993 14,491 3,771 33,712 3,868 1994 14,827 34,196 3,865 4,024 1995 34,604 15,212 4,050 4,020 1996 4,048 35,004 15,500 4,025 1997 15,519 4,022 3,950 35,397 1998 15,653 3,944 35,605 3,895 1999 15,725 3,889 35,751 2000 3,851 **Projected** 3,851 35,885 15,821 3,811 2001 16,047 3,820 3,809 35,941 2002 3,818 35,904 16,247 3,819 2003 16,580 35,697 3,821 3,817 2004 16,931 3,819 35,473 3,832 2005 17,188 35,281 3,828 3,845 2006 35,186 17,268 3,863 3,841 2007 17,132 3,858 35,164 3,884 2008 16,915 35,207 3,909 3,879 2009 16,681 3,939 3,904 35,322 2010 16,536 3,933 35,463 3.975 2011 35,656 16,443 4,016 3,970 2012

NOTE: Some data have been revised from previously published figures.

SOURCE: U.S. Department of Commerce, Bureau of the Census, Current Population Reports, Series P-25, Nos. 1092, 1095, and "National Population Estimates," December 2001, and "Annual Projections of the Total Resident Population: 1999 to 2100," January 2000. (This table was prepared May 2002.)



Table B4.—College-age populations (U.S. Census projections, Middle Series), ages 18, 18 to 24, 25 to 29, 30 to 34, and 35 to 44 years: 1987 to 2012

(In thousands) Year (July 1) 18 years old 18 to 24 years old 25 to 29 years old 30 to 34 years old 35 to 44 years old 1987 3,704 27,931 21,982 21.058 34,299 1988 3,803 27,584 21,869 21,470 35,258 1989 3,888 27,378 21,690 21,759 36,494 1990 3,599 26,835 21,236 21,913 37,776 1991 3,391 26,352 20,713 22,157 39,291 1992 3,328 25,975 20,140 22,240 39,906 1993 3.419 25,740 19,570 22,227 40,814 1994 3,381 25,396 19,107 22,133 41,693 1995 3,541 25,113 18,905 21,826 42,555 1996 3,578 24,844 18,932 21,313 43,365 1997 3,693 24,980 18,820 20,739 44.014 1998 3,879 18,576 25,474 20,168 44,499 1999 3,875 26,011 18,209 19,727 44,812 26,542 2000 3,961 17,816 19,547 44,865 Projected 2001 3,971 27,282 17,482 19,683 44,746 2002 3,901 27,643 17,444 19,580 44,277 2003 4,022 28,077 17,622 19,360 43,718 2004 4,042 28,416 17,974 19,011 43,221 2005 4,058 28,593 18,409 18,627 42,769 2006 4,117 28,817 18,875 18,175 42,337 2007 4,211 29,054 19,265 18,124 41,652 2008 4,369 29,441 19,618 18,292 40,859 2009 4,395 29,926 19,801 18,625 40,065 2010 4,363 30,256 19,907 19,046 39,495

30,478

30,625

20,040

20,107

19,497

19,880

39,088

38,911

NOTE: Some data have been revised from previously published figures.

2011

2012

SOURCE: U.S. Department of Commerce, Bureau of the Census, Current Population Reports, Series P-25, Nos. 1092, 1095, and "National Population Estimates," December 2001, and "Annual Projections of the Total Resident Population: 1999 to 2100," January 2000. (This table was prepared May 2002.)

4,280

4,223



Table B5.—Disposable income per capita, with alternative projections: Fiscal year 1986-87 to 2011-12

	Year ending	Disposable income per capita 1
1987		\$20,430
988		20,989
989		21,581
990		21,831
991		21,821
992		21,964
993		22,234
994		22,416
995		22,886
996		23,154
997		23,587
998		24,388
999		25,153
2000		25,568
2000		Middle alternative projections
		25,694
001		·
002		26,916 27,286
2003		27,286
2004		28,028
2005		28,636
2006		29,096
2007		29,462
800		29,998
2009		30,680
2010		31,411
2011		32,193
2012		33,003
		Low alternative projections
2001		25,694
002		26,906
2003		27,126
2004		27,769
005		28,323
2006		28,638
2007		28,899
2008		
2000		29.371
POOG		29,371 29.864
		29,864
2009 2010		29,864 30,440
2010 2011		29,864 30,440 31,148
2010 2011		29,864 30,440 31,148 31,828
2010 2011 2012		29,864 30,440 31,148 31,828 High alternative projections
2010 2011 2012 2001		29,864 30,440 31,148 31,828 High alternative projections 25,694
2010 2011 2012 2001 2001		29,864 30,440 31,148 31,828 High alternative projections 25,694 26,935
2010 2011 2012 2001 2001 2002		29,864 30,440 31,148 31,828 High alternative projections 25,694 26,935 27,472
2010 2011 2012 2001 2002 2003		29,864 30,440 31,148 31,828 High alternative projections 25,694 26,935 27,472 28,370
2010 2011 2012 2001 2002 2003 2004		29,864 30,440 31,148 31,828 High alternative projections 25,694 26,935 27,472 28,370 29,172
2010 2011 2012 2001 2002 2003 2004 2005		29,864 30,440 31,148 31,828 High alternative projections 25,694 26,935 27,472 28,370
2010 2011 2012 2001 2002 2003 2004 2005 2006		29,864 30,440 31,148 31,828 High alternative projections 25,694 26,935 27,472 28,370 29,172
2010 2011 2012 2001 2002 2003 2004 2005 2006 2007		29,864 30,440 31,148 31,828 High alternative projections 25,694 26,935 27,472 28,370 29,172 29,858
2010 2011 2012 2001 2002 2003 2004 2005 2006 2007 2008		29,864 30,440 31,148 31,828 High alternative projections 25,694 26,935 27,472 28,370 29,172 29,858 30,462
2010 2011 2012 2001 2002 2003 2004 2005 2006 2007 2008 2009		29,864 30,440 31,148 31,828 High alternative projections 25,694 26,935 27,472 28,370 29,172 29,858 30,462 31,275
2010 2011 2012 2001 2002 2003 2004 2005 2006 2007 2008		29,864 30,440 31,148 31,828 High alternative projections 25,694 26,935 27,472 28,370 29,172 29,858 30,462 31,275 32,282

¹In 2000-01 dollars based on the price deflator for personal consumption expenditures, Bureau of Labor Statistics, U.S. Department of Labor.

NOTE: Calculations were made using unrounded numbers. Some data have been revised from previously published figures.

SOURCE: DRI•WEFA, "U.S. Quarterly Model." (This table was prepared May 2002.)



Appendix C

Data Sources

Sources and Comparability of Data

The information in this report was obtained from many sources, including federal and state agencies, private research organizations, and professional associations. The data were collected by many methods, including surveys of a universe (such as all colleges) or of a sample, and compilations of administrative records. Care should be used when comparing data from different sources. Differences in procedures, such as timing, phrasing of questions, and interviewer training, mean that the results from the different sources are not strictly comparable. More extensive documentation of one survey's procedures than of another's does not imply more problems with the data, only that more information is available.

Accuracy of Data

The accuracy of any statistic is determined by the joint effects of "sampling" and "nonsampling" errors. Estimates based on a sample will differ from the figures that would have been obtained if a complete census had been taken using the same survey instruments, instructions, and procedures. Besides sampling errors, both surveys, universe and sample, are subject to errors of design, reporting, processing, and errors due to nonresponse. To the extent possible, these nonsampling errors are kept to a minimum by methods built into the survey procedures. In general, however, the effects of nonsampling errors are more difficult to gauge than those produced by sampling variability.

Sampling Errors

The standard error is the primary measure of sampling variability. It provides a specific range—with a stated confidence—within which a given estimate would lie if a complete census had been conducted. The chances that a complete census would differ from the sample by less than the standard error are about 68 out of 100. The chances that the difference would be less than 1.65 times the standard error are about 90 out of 100. The chances that the difference would be less than 1.96 times the standard error are about 95 out of 100. The chances that it would be less than 2.58 times as

large are about 99 out of 100.

The standard error can help assess how valid a comparison between two estimates might be. The standard error of a difference between two sample estimates that are uncorrelated is approximately equal to the square root of the sum of the squared standard errors of the estimates. The standard error (se) of the difference between sample estimate "a" and sample estimate "b" is:

$$se_{a-b} = (se_a^2 + se_b^2)^{1/2}$$

Note that most of the standard errors in subsequent sections and in the original documents are approximations. That is, to derive estimates of standard errors that would be applicable to a wide variety of items and could be prepared at a moderate cost, a number of approximations were required. As a result, most of the standard errors presented provide a general order of magnitude rather than the exact standard error for any specific item.

Nonsampling Errors

Both universe and sample surveys are subject to nonsampling errors. Nonsampling errors are of two kinds—random and nonrandom. Random nonsampling errors may arise when respondents or interviewers interpret questions differently, when respondents must estimate values, or when coders, keyers, and other processors handle answers differently. Nonrandom nonsampling errors result from total nonresponse (no usable data obtained for a sampled unit), partial or item nonresponse (only a portion of a response may be usable), inability or unwillingness on the part of provide information, difficulty respondents interpreting questions, mistakes in recording or keying data, errors of collection or processing, and overcoverage or undercoverage of the target universe. Random nonresponse errors usually, but not always, result in an understatement of sampling errors and thus an overstatement of the precision of survey estimates. Because estimating the magnitude of nonsampling errors would require special experiments or access to independent data, these magnitudes are seldom available.

To compensate for suspected nonrandom errors, adjustments of the sample estimates are often made. For example, adjustments are frequently made for



nonresponse, both total and partial. Imputations are usually made separately within various groups of sample members that have similar survey characteristics. Imputation for item nonresponse is an acceptable value which is substituted for missing or inconsistent data in a data set.

Although the magnitude of nonsampling errors in the data used in this *Projections of Education Statistics* is frequently unknown, idiosyncrasies that have been identified are noted on the appropriate tables.

Federal Agency Sources

National Center for Education Statistics (NCES)

Common Core of Data

NCES uses the Common Core of Data (CCD) survey to acquire and maintain statistical data from each of the 50 states, the District of Columbia, the Bureau of Indian Affairs, Department of Defense Dependents' Schools (overseas) and the outlying areas. Information about staff and students is collected annually at the school, local education agency or school district (LEA), and state levels. Information about revenues and expenditures is also collected at the state and LEA levels.

Data are collected for a particular school year (October 1 through September 30) via survey instruments sent to the state education agencies during the school year. States have 1 year in which to modify the data originally submitted.

Since the CCD is a universe survey, the CCD information presented in this edition of the *Projections of Education Statistics* is not subject to sampling errors. However, nonsampling errors could come from two sources—nonreturn and inaccurate reporting. Almost all of the states submit the six CCD survey instruments each year, but submissions are sometimes incomplete or too late for publication.

Understandably, when 58 education agencies compile and submit data for approximately 90,000 public schools and 16,000 local school districts, misreporting can occur. Typically, this results from varying interpretations of NCES definitions and differing recordkeeping systems. NCES attempts to minimize these errors by working closely with the state education agencies through the National Forum on Education Statistics.

The state education agencies report data to NCES from data collected and edited in their regular reporting cycles. NCES encourages the agencies to incorporate into their own survey systems the NCES

items they do not already collect so that those items will also be available for the subsequent CCD survey. Over time, this has meant fewer missing data cells in each state's response, reducing the need to impute data.

NCES subjects data from the education agencies to a comprehensive edit. Where data are determined to be inconsistent, missing, or out of range, NCES contacts the education agencies for verification. NCES-prepared state summary forms are returned to the state education agencies for verification. States are also given an opportunity to revise their state-level aggregates from the previous survey cycle.

Further information on CCD may be obtained from:

John Sietsema
Elementary/Secondary and Library Studies Division
National Center for Education Statistics
1990 K Street NW
Washington, DC 20006
John Sietsema@ed gov
http://nces.ed.gov/ccd/

Private School Universe Survey

The purposes of Private School Survey (PSS) data collection activities are to build an accurate and complete list of private schools to serve as a sampling frame for NCES sample surveys of private schools; and to report data on the total number of private schools, teachers, and students in the survey universe. The PSS is conducted every 2 years, with collections in 1989–90, 1991–92, 1993–94, 1995–96, 1997–98, and 1999–2000 school years. The next survey will be in the 2001–02 school year.

The PSS produces data similar to that of the CCD for the public schools, and can be used for public-private comparisons. The data are useful for a variety of policy and research-relevant issues, such as the growth of religiously affiliated schools, the number of private high school graduates, the length of the school year for various private schools, and the number of private school students and teachers.

The target population for the universe survey consists of all private schools in the United States that meet NCES criteria of a school (e.g., private school is an institution which provides instruction for any of grades K through 12, has one or more teachers to give instruction, is not administered by a public agency, and is not operated in a private home). The survey universe is composed of schools identified from a variety of sources. The main source is a list frame, initially developed for the 1989–90 PSS. The list is updated regularly, matching it with lists

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provided by nationwide private school associations, state departments of education, and other national guides and sources that list private schools. The other source is an area frame search in approximately 120 geographic areas, conducted by the Bureau of the Census.

Further information on PSS may be obtained from:

Steve Broughman
Elementary/Secondary and Libraries Studies Division
National Center for Education Statistics
1990 K Street NW
Washington, DC 20006
Stephen Broughman@ed.gov
http://nces.ed.gov/surveys/pss/

Integrated Postsecondary Education Data System

The Integrated Postsecondary Education Data System (IPEDS) surveys approximately 10,000 postsecondary institutions, including universities and colleges, as well as institutions offering technical and vocational education beyond the high school level. This survey, which began in 1986, replaced the Higher Education General Information Survey (HEGIS).

IPEDS consists of several integrated components obtain information provides who postsecondary education (institutions), participates in it and completes it (students), what programs are offered and what programs are completed, and both the human and financial resources involved in the provision of institutionally based postsecondary education. Specifically, these components include: Institutional Characteristics, including instructional activity; Fall Enrollment, including age and residence; Completions; Finance; Staff; Salaries of Full-Time Instructional Faculty; and Graduation Rate.

The degree-granting institutions portion of this survey is a census of colleges awarding associate's or higher degrees and that were eligible to participate in Title IV financial aid programs. Prior to 1993, data from the technical and vocational institutions were collected through a sample survey. Beginning in 1993, all data are gathered in a census of all postsecondary institutions. The tabulations on "Institutional Characteristics" developed for this edition of the *Projections of Education Statistics* are based on lists of all institutions and are not subject to sampling errors.

The definition of institutions generally thought of as offering college and university education has been aged in recent years. The old standard for higher

education institutions included those institutions that had courses that led to an associate degree or higher, or were accepted for credit towards those degrees. The higher education institutions were accredited by an agency or association that was recognized by the U.S. Department of Education or recognized directly by the Secretary of Education. The current category includes institutions which award associate or higher level degrees that are eligible to participate in Title IV federal financial aid programs. Tables that contain any data according to this standard are titled as "degree-granting" institutions. The impact of this change has generally not been large. For example, tables on faculty salaries and benefits were only affected to a very small extent. Also, degrees awarded at the bachelor's level or higher were not heavily affected. Most of the data on public 4-year colleges has been affected only to a minimal extent. The impact on enrollment in public 2-year colleges was noticeable in certain states, but relatively small at the national level. The largest impact has been on private 2-year college enrollment. Overall, enrollment for all institutions was about one-half of a percent higher for degree-granting institutions compared to the total for higher education institutions.

Prior to the establishment of IPEDS in 1986, HEGIS acquired and maintained statistical data on the characteristics and operations of institutions of higher education. Implemented in 1966, HEGIS was an annual universe survey of institutions accredited at the college level by an agency recognized by the Secretary of the U.S. Department of Education. These institutions were listed in NCES' Education Directory, Colleges and Universities.

HEGIS surveys solicited information concerning institutional characteristics, faculty salaries, finances, enrollment, and degrees. Since these surveys were distributed to all higher education institutions, the data presented are not subject to sampling error. However, they are subject to nonsampling error, the sources of which varied with the survey instrument. Information concerning the nonsampling error of the enrollment and degrees surveys draws extensively on the HEGIS Post-Survey Validation Study conducted in 1979.

Further information on IPEDS may be obtained from:

Susan Broyles
Postsecondary Studies Division
National Center for Education Statistics
1990 K Street NW
Washington, DC 20006
Susan Broyles@ed gov
http://nces.ed.gov/ipeds/

Institutional Characteristics This survey provides the basis for the universe of institutions presented in the Directory of Postsecondary Institutions. The survey collects basic information necessary to classify the institutions, including control, level, and kinds of programs; information on tuition, fees, and room and board charges; and unduplicated full-year enrollment counts and instructional activity. The overall response rate was 96.6 percent for 1998.

Further information may be obtained from:

Patricia Brown
Postsecondary Studies Division
National Center for Education Statistics
1990 K Street NW
Washington, DC 20006
Patricia Brown@ed gov
http://nces.ed.gov/ipeds/

Fall Enrollment This survey has been part of the HEGIS and IPEDS series since 1966. enrollment survey response rate is relatively high. The 1998 overall response rate was 91.8 percent for degree-granting institutions. Major sources of nonsampling error for this survey, as identified in the 1979 report, were classification problems, the unavailability of needed data, interpretation of definitions, the survey due date, and operational errors. Of these, the classification of students appears to have been the main source of error. Institutions had problems in correctly classifying first-time freshmen and other first-time students for both full-time and part-time categories. These problems occurred most often at 2-year institutions (private and public) and private 4-year institutions. In the 1977-78 HEGIS validation studies, the classification problem led to an estimated overcount of 11,000 full-time students and an undercount of 19,000 part-time students. Although the ratio of error to the grand total was quite small (less than 1 percent), the percentage of errors was as high as 5 percent for detailed student levels and even higher at certain aggregation levels.

Beginning in fall 1986, the survey system was redesigned with the introduction of IPEDS (see above). The survey allows (in alternating years) for the collection of age and residence data.

Further information may be obtained from:

Frank Morgan
Postsecondary Studies Division
National Center for Education Statistics
1990 K Street NW
Washington, DC 20006

Frank Morgan@ed gov http://nces.ed.gov/ipeds/

Completions This survey was part of the HEGIS series throughout its existence. However, the degree classification taxonomy was revised in 1970–71, 1982–83, and 1991–92. Collection of degree data has been maintained through the IPEDS system.

Though information from survey years 1970-71 through 1981-82 is directly comparable, care must be taken if information before or after that period is included comparison. in anv "Degrees-conferred" trend tables arranged by the 1991-92 classification are included Projections of Education Statistics to provide consistent data from 1970-71 to the most recent year. Data in this edition on associate's and other formal awards below the baccalaureate level, by field of study, cannot be made comparable with figures prior to 1982-83. The nonresponse rate did not appear to be a significant source of nonsampling error for this survey. Historically, the return rate has been high, with the degree-granting institutions response rate for the 1999-2000 survey at 96.7 percent. Because of the high return rate for degreegranting institutions, nonsampling error caused by imputation is also minimal. The overall response rate that includes the non-degree granting institutions was 84.4 percent in 1999-2000.

The major sources of nonsampling error for this survey were differences between the NCES program taxonomy and taxonomies used by the colleges, classification of double majors, operational problems, and survey timing. In the 1979 HEGIS validation study, these sources of nonsampling error contributed to an error rate of 0.3 percent overreporting of bachelor's degrees and 1.3 percent overreporting of master's degrees. The differences, however, varied greatly among fields. Over 50 percent of the fields selected for the validation study had no errors identified. Categories of fields that had large differences were business and management, education, engineering, letters, and psychology. It was also shown that differences in proportion to the published figures were less than 1 percent for most of the selected fields that had some errors. Exceptions to these were: master's and Ph.D. programs in labor and industrial relations (20 percent and 8 percent); bachelor's and master's programs in art education (3 percent and 4 percent); bachelor's and Ph.D. programs in business and commerce, and in distributive education (5 percent and 9 percent); master's programs in philosophy (8 percent); and Ph.D. programs in psychology (11 percent).

Further information on IPEDS Completions

surveys may be obtained from:

Frank Morgan
Postsecondary Studies Division
National Center for Education Statistics
1990 K Street NW
Washington, DC 20006
Frank Morgan@ed gov
http://nces.ed.gov/ipeds/

Bureau of the Census

Current Population Survey

Current estimates of school enrollment rates, as well as social and economic characteristics of students, are based on data collected in the Census Bureau's monthly household survey of about 50,000 dwelling units. The monthly Current Population Survey (CPS) sample consists of 729 areas comprising 1,973 counties, independent cities, and minor civil divisions throughout the 50 states and the District of Columbia. The samples are initially selected based on the decennial census files and are periodically updated to reflect new housing construction.

The monthly CPS deals primarily with labor force data for the civilian noninstitutional population (i.e., excluding military personnel and their families living on post and inmates of institutions). In addition, in October of each year, supplemental questions are asked about highest grade completed, level and grade of current enrollment, attendance status, number and type of courses, degree or certificate objective, and type of organization offering instruction for each member of the household. In March of each year, supplemental questions on income are asked. The responses to these questions are combined with answers to two questions on educational attainment: highest grade of school ever attended, and whether that grade was completed.

The estimation procedure employed for monthly CPS data involves inflating weighted sample results to independent estimates of characteristics of the civilian noninstitutional population in the United States by age, sex, and race. These independent estimates are based on statistics from decennial censuses; statistics on births, deaths, immigration, and emigration; and statistics on the population in the armed services. Generalized standard error tables are provided in the *Current Population Reports*. The data are subject to both nonsampling and sampling errors.

Further information on CPS may be obtained

from:

Education and Social Stratification Branch
Population Division
Bureau of the Census
U.S. Department of Commerce
Washington, DC 20233
http://www.bls.census.gov/cps/cpsmain.htm

Each October, the Current School Enrollment Population Survey (CPS) includes supplemental questions on the enrollment status of the population 3 years old and over, in addition to the monthly basic survey on labor force participation. The main sources of nonsampling variability in the responses to the supplement are those inherent in the survey instrument. The question of current enrollment may not be answered accurately for various reasons. Some respondents may not know current grade information for every student in the household, a problem especially for households with members in college or in nursery school. Confusion over college credits or hours taken by a student may make it difficult to determine the year in which the student is enrolled. Problems may occur with the definition of nursery school (a group or class organized to provide experiences for children), where educational "educational respondents' interpretations of experiences" vary.

The 2000 CPS sample was selected from the 1990 Decennial Census files with coverage in all 50 states and the District of Columbia. The sample is continually updated to account for new residential construction. The United States was divided into 2,007 geographic areas. In most states, a geographic area consists of a county or several contiguous counties. In some areas of New England and Hawaii, minor civil divisions are used instead of counties. A total of 754 geographic areas were selected for the About 50,000 occupied households are sample. eligible for interview every month. Interviewers are unable to obtain interviews at about 3,200 of these units. This occurs when the occupants are not found at home after repeated calls or are unavailable for some other reason. For the October 2000 basic CPS, the nonresponse rate was 6.8 percent. For the school enrollment supplement, the nonresponse rate was an additional 3.1 percent for a total school supplement nonresponse rate of 9.7 percent.

Further information on CPS "School Enrollment" may be obtained from:

Education and Social Stratification Branch Bureau of the Census U.S. Department of Commerce Washington, DC 20233 http://www.census.gov/population/www/socdemo/school.html

State population projections. These state population projections were prepared using a cohort-component method by which each component of population change—births, deaths. state-to-state migration flows, international in-migration. international out-migration—was projected separately for each birth cohort by sex, race, and Hispanic origin. The basic framework was the same as in past Census Bureau projections.

Detailed components necessary to create the projections were obtained from vital statistics, administrative records, census data, and national projections.

The cohort-component method is based on the traditional demographic accounting system:

$$P_1 = P_0 + B - D + DIM - DOM + IIM - IOM$$

where:

 P_1 = population at the end of the period

 P_0 = population at the beginning of the period

B = births during the period

D = deaths during the period

DIM = domestic in-migration during the period

DOM = domestic out-migration during the period

IIM = international in-migration during the period

IOM = international out-migration during the period

To generate population projections with this model, the Census Bureau created separate data sets for each of these components. In general, the assumptions concerning the future levels of fertility, mortality, and international migration are consistent with the assumptions developed for the national population projections of the Census Bureau.

Once the data for each component were developed, it was a relatively straightforward process to apply the cohort-component method and produce the projections. For each projection year the base population for each state was disaggregated into eight race and Hispanic categories (non-Hispanic White; non-Hispanic Black; non-Hispanic American Indian, Eskimo, and Aleut; non-Hispanic Asian and Pacific Islander; Hispanic

white; Hispanic black; Hispanic American Indian, Eskimo, and Aleut; and Hispanic Asian and Pacific Islander), by sex, and single year of age (ages 0 to 85+). The next step was to survive each age-sex-race-ethnic group forward 1 year using the pertinent survival rate. The internal redistribution of the population was accomplished by applying the appropriate state-to-state migration rates to the survived population in each state. The projected out-migrants were subtracted from the state of origin and added to the state of destination (as in-migrants). Next, the appropriate number of immigrants from abroad was added to each group. The population under age 1 was created by applying the appropriate age-race-ethnic-specific birth rates to females of childbearing age. The number of births by sex and race/ethnicity were survived forward and exposed to the appropriate migration rate to yield the population under age 1. The final results of the projection process were adjusted to be consistent with the national population projections by single years of age, sex, race, and Hispanic origin. The entire process was then repeated for each year of the projection.

More information is available in the Census Bureau Population Paper Listing 47 (PPL-47) and Current Population Report P25-1130. These reports may be obtained from:

Statistical Information Staff
Bureau of the Census
U.S. Department of Commerce
Washington, DC 20233
(301) 763-3030
http://www.census.gov

National population projections. The method used to produce projections of the United States population for future reference dates from a current base population reflects three fundamental principles. First, the projections are demographic. Future populations are derived from a base population through the projection of change by its major demographic population components, births, deaths, and migration. Second the projection of the demographic components of change is driven by the composition of the population by age, sex, race, Hispanic origin, and nativity, and the way these variables determine the propensity to bear children, die. migrate to or from the United States. definition of the population with respect to who is included and the characteristics of included people remains the same throughout the projection period. We refer to these definitions collectively throughout the work as the "population universe." This concept embraces such issues as the inclusion or exclusion of people uncounted by a census, the rule defining residency in the United States, and the way we classify people by age.

race, and Hispanic origin.

For more information, see "Methodology and Assumptions for the Population Projections of the United States: 1999 to 2100," Population Division Working Paper No. 38. This report is available on the Internet at http://www.census.gov.

Other Sources

DRI•WEFA, Inc.

DRI•WEFA Inc. provides an information system that includes more than 125 databases: simulation and planning models; regular publications and special studies; data retrieval and management systems; and access to experts on economic, financial, industrial, and market activities. One service is the DRI U.S. Annual Model Forecast Data Bank, which contains annual projections of the U.S. economic and financial conditions, including forecasts for the federal government, incomes, population, prices and wages, and state and local governments, over a long-term (10 to 25-year) forecast period.

Additional information is available from:

DRI•WEFA, Inc. 24 Hartwell Avenue Lexington, MA 02421-3158



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Appendix D

Glossary

Data Terms

Associate's degree: A degree granted for the successful completion of a subbaccalaureate program of studies, usually requiring at least 2 years (or the equivalent) of full-time college-level study. This term includes degrees granted in a cooperative or work-study program.

Average daily attendance (ADA): The aggregate attendance of a school during a reporting period (normally a school year) divided by the number of days school is in session during this period. Only days on which the pupils are under the guidance and direction of teachers should be considered days in session

Average daily membership (ADM): The aggregate membership of a school during a reporting period (normally a school year) divided by the number of days school is in session during this period. Only days on which the pupils are under the guidance and direction of teachers should be considered as days in session. The average daily membership for groups of schools having varying lengths of terms is the average of the average daily memberships obtained for the individual schools.

Bachelor's degree: A degree granted for the successful completion of a baccalaureate program of studies, usually requiring at least 4 years (or the equivalent) of full-time college-level study. This term includes degrees granted in a cooperative or work-study program.

Cohort: A group of individuals that have a statistical factor in common, for example, year of birth.

College: A postsecondary school that offers a general or liberal arts education, usually leading to an associate, bachelor's, master's, doctor's, or first-professional degree. Junior colleges and community colleges are included in this term.

Current Population Survey: See Appendix C, Data Sources.

ERIC Full Text Provided by ERIC

Degree-granting institutions: Postsecondary institutions that are eligible for Title IV federal financial aid programs and that grant an associate's or higher degree. For an institution to be eligible to participate in Title IV financial aid programs it must offer a program of at least 300 clock hours in length, have accreditation recognized by the U.S. Department of Education, have been in business for at least 2 years, and have signed a participation agreement with the Department.

Disposable income: Current income received by persons less their contributions for social insurance, personal tax, and nontax payments. It is the income available to persons for spending and saving. Nontax payments include passport fees, fines and penalties, donations, and tuitions and fees paid to schools and hospitals operated mainly by the government. See also personal income.

Doctor's degree: An earned degree carrying the title of doctor. The Doctor of Philosophy degree (Ph.D.) is the highest academic degree and requires mastery within a field of knowledge and demonstrated ability to perform scholarly research. Other doctorates are awarded for fulfilling specialized requirements in professional fields, such as education (Ed.D.), musical arts (D.M.A.), business administration (D.B.A.), and engineering (D.Eng. or D.E.S.). Many doctor's degrees in both academic and professional fields require an earned master's degree as a prerequisite. First-professional degrees, such as M.D. and D.D.S., are not included under this heading.

Elementary school: A school classified as elementary by state and local practice and composed of any span of grades not above grade 8. A preschool or kindergarten school is included under this heading only if it is an integral part of an elementary school or a regularly established school system.

Elementary and secondary schools: As used in this publication, includes only regular schools, that is, schools that are part of state and local school systems and also most private elementary and secondary schools, both religiously affiliated and nonsectarian. Schools not included in this term are

subcollegiate departments of institutions of higher education, American residential schools for exceptional children, federal schools for Indians, and federal schools on military posts and other federal installations.

Enrollment: The number of students registered in a given school unit at a given time, generally in the fall of a year.

First-professional degree: A degree that signifies both completion of the academic requirements for beginning practice in a given profession and a level of professional skill beyond that normally required for a bachelor's degree. This degree is based on a program requiring at least 2 academic years of work before entrance and a total of at least 6 academic years of work to complete the degree program, including both prior required college work and the professional program itself. By NCES definition, first-professional degrees are awarded in the fields of dentistry (D.D.S. or D.M.D.), medicine (M.D.), optometry (O.D.), osteopathic medicine (D.O.), pharmacy (D.Phar.), podiatry (D.P.M.), veterinary medicine (D.V.M.), chiropractic (D.C. or D.C.M.), law (LL.B. or J.D.), and theological professions (M.Div. or M.H.L.).

First-professional enrollment: The number of students enrolled in a professional school or program that requires at least 2 years of academic college work for entrance and a total of at least 6 years for a degree. By NCES definition, first-professional enrollment includes only students in certain programs. (See *first-professional degree* for a list of programs.)

Full-time enrollment: The number of students enrolled in higher education courses with total credit load equal to at least 75 percent of the normal full-time course load.

Full-time-equivalent (FTE) enrollment: For institutions of higher education, enrollment of full-time students, plus the full-time equivalent of part-time students as reported by institutions. In the absence of an equivalent reported by an institution, the FTE enrollment is estimated by adding one-third of part-time enrollment to full-time enrollment.

Full-time worker: In educational institutions, an employee whose position requires being on the job on school days throughout the school year at least the number of hours the schools are in session; for higher education, a member of an educational institution's staff who is employed full time.

Graduate: An individual who has received formal recognition for the successful completion of a prescribed program of studies.

Graduate enrollment: The number of students who hold the bachelor's or first-professional degree, or the equivalent, and who are working toward a master's or doctor's degree. First-professional students are counted separately. These enrollment data measure those students who are registered at a particular time during the fall. At some institutions, graduate enrollment also includes students who are in postbaccalaureate classes but not in degree programs.

High school: A secondary school offering the final years of high school work necessary for graduation, usually including grades 10, 11, and 12 (in a 6-3-3 plan), or grades 9, 10, 11, and 12 (in a 6-2-4 plan).

Higher education: Study beyond secondary school at an institution that offers programs terminating in an associate, baccalaureate, or higher degree.

Higher education institutions (traditional classifications):

4-year institution: An institution legally authorized to offer and offering at least a 4-year program of college-level studies wholly or principally creditable toward a bachelor's degree. A university is a postsecondary institution that typically includes one or more graduate professional schools.

2-year institution: An institution legally authorized to offer and offering at least a 2-year program of college-level studies that terminates in an associate degree or is principally creditable toward a baccalaureate.

See also degree-granting institutions and postsecondary education.

Master's degree: A degree awarded for successful completion of a program generally requiring 1 or 2 years of full-time college-level study beyond the bachelor's degree. One type of master's degree, including the Master of Arts degree (M.A.) and the Master of Science degree (M.S.), is awarded in the liberal arts and sciences for advanced scholarship in a subject field or discipline and demonstrated ability to perform scholarly research. A second type of master's degree is awarded for the completion of a professionally oriented program, for example, an



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M.Ed. in education, an M.B.A. in business administration, an M.F.A. in fine arts, an M.M. in music, an M.S.W. in social work, or an M.P.A. in public administration. A third type of master's degree is awarded in professional fields for study beyond the first-professional degree, for example, the Master of Laws (LL.M.) and Master of Science in various medical specializations.

Part-time enrollment: The number of students enrolled in higher education courses with a total credit load of less than 75 percent of the normal full-time credit load.

Personal income: Current income received by persons from all sources minus their personal contributions for social insurance. Classified as "persons" are individuals (including owners of unincorporated firms), nonprofit institutions serving individuals, private trust funds, and private noninsured welfare funds. Personal income includes transfers (payments not resulting from current production) from government and business such as social security benefits, military pensions, and so forth, but excludes transfers among persons.

Postbaccalaureate enrollment: The number of graduate and first-professional students working toward advanced degrees and students enrolled in graduate-level classes but not enrolled in degree programs. See also graduate enrollment and first-professional enrollment.

Postsecondary education: The provision of formal instructional programs with a curriculum designed primarily for students who have completed the requirements for a high school diploma or equivalent. This includes programs of an academic, vocational, and continuing professional education purpose, and excludes avocational and adult basic education programs.

Private institution: A school or institution that is controlled by an individual or agency other than a state, a subdivision of a state, or the federal government; that is usually supported primarily by other than public funds; and the operation of whose program rests with other than publicly elected or appointed officials.

Public school or institution: A school or institution controlled and operated by publicly elected or appointed officials and generally deriving its primary support from public funds.

School: A division of the school system consisting of students in one or more grades or other identifiable groups and organized to give instruction of a defined type. One school may share a building with another school or one school may be housed in several buildings.

Secondary instructional level: The general level of instruction provided for pupils in secondary schools (generally covering grades 7 through 12 or 9 through 12) and any instruction of a comparable nature and difficulty provided for adults and youth beyond the age of compulsory school attendance.

Secondary school: A school including any span of grades beginning with the next grade following an elementary or middle school (usually 7, 8, or 9) and ending with or below grade 12. Both junior high schools and senior high schools are included.

Senior high school: A secondary school offering the final years of high school work necessary for graduation.

Student: An individual for whom instruction is provided in an educational program under the jurisdiction of a school, school system, or other educational institution. No distinction is made between the terms "student" and "pupil," although "student" may refer to one receiving instruction at any level while "pupil" refers only to one attending school at the elementary or secondary level. The term "student" is used to include individuals at all instructional levels. A student may receive instruction in a school facility or in another location, such as at home or in a hospital. Instruction may be provided by direct student-teacher interaction or by some other approved medium, such as television, radio, telephone, or correspondence.

Unclassified students: Students who are not candidates for a degree or other formal award, although they are taking higher education courses for credit in regular classes with other students.

Undergraduate students: Students registered at an institution of higher education who are working in a program leading to a baccalaureate or other formal award below the baccalaureate, such as an associate's degree.



Statistical Terms

Autocorrelation: Correlation of the error terms from different observations of the same variable. Also called *serial correlation*.

Degrees of freedom: The number of free or linearly independent sample observations used in the calculation of a statistic. In a time series regression with t time period and k independent variables including a constant term, there would be t minus k degrees of freedom.

Dependent variable: A mathematical variable whose value is determined by that of one or more other variables in a function. In regression analysis, when a random variable, y, is expressed as a function of variables $x_1, x_2,...$, plus a stochastic term, then y is known as the "dependent variable."

Double exponential smoothing: A method that takes a single smoothed average component of demand and smoothes it a second time to allow for estimation of a trend effect

Durbin-Watson statistic: A statistic testing the independence of errors in least squares regression against the alternative of first-order serial correlation. The statistic is a simple linear transformation of the first-order serial correlation of residuals and, although its distribution is unknown, it is tested by bounding statistics that follow R. L. Anderson's distribution.

Econometrics: The quantitative examination of economic trends and relationships using statistical techniques, and the development, examination, and refinement of those techniques.

Estimate: A numerical value obtained from a statistical sample and assigned to a population parameter. The particular value yielded by an estimator in a given set of circumstances or the rule by which such particular values are calculated.

Estimating equation: An equation involving observed quantities and an unknown that serves to estimate the latter.

Estimation: Estimation is concerned with inference about the numerical value of unknown population values from incomplete data, such as a sample. If a single figure is calculated for each unknown parameter, the process is called point estimation. If an interval is calculated within which the parameter

is likely, in some sense, to lie, the process is called interval estimation.

Exogenous variable: Variables for which the values are determined outside the model but which influence the model.

Exponential smoothing: A method used in time series to smooth or to predict a series. There are various forms, but all are based on the supposition that more remote history has less importance than more recent history.

First-order serial correlation: When errors in one time period are correlated directly with errors in the ensuing time period. Also called *autocorrelation*.

Forecast: An estimate of the future based on rational study and analysis of available pertinent data, as opposed to subjective prediction.

Forecast horizon: The number of time periods into the future which are forecasted. Forecasts for next year are said to have a 1-year forecast horizon.

Forecasting: Assessing the magnitude which a quantity will assume at some future point in time, as distinct from "estimation," which attempts to assess the magnitude of an already existent quantity.

Function: A mathematical correspondence that assigns exactly one element of one set to each element of the same or another set. A variable that depends on and varies with another.

Functional form: A mathematical statement of the relationship among the variables in a model.

Independent variable: In regression analysis, when a random variable, y, is expressed as a function of variables $x_1, x_2,...$, plus a stochastic term, the x's are known as "independent variables."

Interpolation: See linear interpolation.

Linear interpolation: A method that allows the prediction of an unknown value if any two particular values on the same scale are known and the rate of change is assumed constant.

Lag: An event occurring at time t + k (k > 0) is said to lag behind an event occurring at time t, the extent of the lag being k. An event occurring k time periods before another may be regarded as having a negative lag.



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Maximum likelihood estimation: A method of estimating a parameter or parameters of a population by that value (or values) that maximizes (or maximize) the likelihood of a sample.

Mean absolute percentage error (MAPE): The average value of the absolute value of errors expressed in percentage terms.

Model: A system of postulates, data, and inferences presented as a mathematical description of a phenomenon such as an actual system or process. The actual phenomenon is represented by the model in order to explain it, to predict it, and to control it.

Ordinary least squares (OLS): The estimator that minimizes the sum of squared residuals.

Parameter: A quantity that describes a statistical population.

Projection: In relation to a time series, an estimate of future values based on a current trend.

R²: The coefficient of determination; the square of the correlation coefficient between the dependent variable and its OLS estimate.

 \mathbb{R}^2 (also called the adjusted \mathbb{R}^2): The coefficient of determination adjusted for the degrees of freedom.

Regression analysis: A statistical technique for investigating and modeling the relationship between variables.

Rho: A measure of the correlation coefficient between errors in time period t and time period t minus 1.

Serial correlation: Correlation of the error terms from different observations of the same variable. Also called *autocorrelation*.

Standard error of estimate: An expression for the standard deviation of the observed values about a regression line. An estimate of the variation likely to be encountered in making predictions from the regression equation.

Time series: A set of ordered observations on a quantitative characteristic of an individual or collective phenomenon taken at different points in time. Usually the observations are successive and equally spaced in time.

Time series analysis: The branch of quantitative forecasting in which data for one variable are examined for patterns of trend, seasonality, and cycle.

Variable: A quantity that may assume any one of a set of values.



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